

Summer Vacations Homework 2020

Class : 9th

Cantt Public Education System

A NEW FRONTIER IN LEARNING

Dear Students,

We hope that you and your families are keeping well during ongoing health crises. It is more and more likely that schools may not open till July 2020. Therefore, we are pleased to share our plans for online instructions and homework activities.

As of 1st June 20, we will be starting a robust, interactive teaching programme. The curriculum will be taught through various online platforms, video lectures and live interaction with teachers as well as carefully designed homework, which all students will complete at their own time. We shall pursue following time table:-

Group	DAYs	Timings	Subjects	Remarks
I	Monday – Day 1	0900 - 0940	Physics	Principals shall ensure availability of subject teachers to students for coaching/clarification of doubts etc
	Tuesday – Day 2	1000 - 1040	English	
		1100 - 1140	Urdu	
Wednesday – Day 3	1200 -1240	Chemistry		
II	Thursday - Day 4	0900 - 0940	Computer/ Biology	
	Friday – Day 5	1000 - 1040	Maths	
		1100 - 1140	Islamiat/Naazra	
	Saturday – Day 6	1200 -1240	Pak Studies/GK	

Beloved scholars, home work for following subjects has been included in this booklet:-

Ser	Subject	Pages	
		From	To
1	Mathematics	2	11
2	Urdu	12	18
3	Physics	19	40
4	Chemistry	41	52
5	Computer	53	64
6	Biology	65	78
7	Pakistan Studies	79	85
8	Islamiat	86	93
9	English	94	112
10	General Knowledge	113	145

Our main objective is to keep you in touch with your studies rather than to put you under unjustified burden. Therefore, a pragmatic program has been planned for your educational progression. Stay home, stay safe and stay connected with your studies.

Regards

Mathematics

WEEK – 1:

DAY- 1

Learn these First:

Factorization: The process of expressing an algebraic expression in term of its factor is called factorization.

Q: Factorize the following

- i. $9xy - 12x^2y + 18y^2$
- ii. $3x^3y(x - 3y) - 7x^2y^2(x - 3y)$
- iii. $(x^2 - y^2)z + (y^2 - z^2)x$
- iv. $12x^2 - 36x + 27$
- v. $3x - 243x^3$
- vi. $x^2 - y^2 - 4xz + 4z^2$

Lecture Video Link

<https://www.youtube.com/watch?v=mWiCYhFX6xY>

DAY - 2

Q: Factorize the following

- i. $x^2 + 14x + 48$
- ii. $4x^2 + 12x + 5$
- iii. $\left(5x - \frac{1}{x}\right)^2 + 4\left(5x - \frac{1}{x}\right) + 4$
- iv. $(x^2 + 5x + 4)(x^2 + 5x + 6) - 3$
- v. $(x + 1)(x + 2)(x + 3)(x + 6) - 3x^2$

Lecture Video Link

https://www.youtube.com/watch?v=HW_IzR3MLrw

DAY - 3

Remainder theorem If a polynomial $f(x)$ is divided by a linear divisor $(x-a)$, then the remainder is $f(a)$

Factor theorem: The polynomial $(x-a)$ is a factor of the polynomial $f(x)$ if and only if $f(a)=0$

Zero of polynomial: If a specific number $x=a$ is substituted for the variable x in a polynomial $p(x)$ so that the value.

$P(a)$ is zero then $x=a$ is called zero of polynomial $p(x)$

Solve the following questions

Q: Use remainder theorem to find the remainder when $3x^3 - 10x^2 + 13x - 6$ is divided by $(x - 2)$.

Q: Use remainder theorem to find the remainder when $3x^3 - 10x^2 + 13x - 6$ is divided by $(x + 2)$.

Lecture Video Link

<https://www.youtube.com/watch?v=KVgCPnnADMU&t=2s>

<https://www.youtube.com/watch?v=jo1BtEdeb4E&t=60s>

WEEK - 2

DAY - 1

Solve the following questions

Q: For what value of m is the polynomial $p(x) = 4x^3 - 7x^2 + 6x - 3m$ is divided by $(x + 2)$.

Q: The expression $ax^3 - 9x^2 + bx - 3a$ is exactly divisible by $x^2 - 5x + 6$. Find the values of a & b .

Q: Without actual long division determine whether

- i. $(x - 2)$ and $(x - 3)$ are factors of $p(x) = x^3 - 12x^2 + 44x - 48$
- ii. $(x - 2)$, $(x + 3)$ and $(x - 4)$ are factors of $q(x) = x^3 + 2x^2 - 5x - 6$

Lecture Video Link

<https://www.youtube.com/watch?v=KVgCPnnADMU&t=2s>

<https://www.youtube.com/watch?v=jo1BtEdeb4E&t=60s>

DAY – 2

Factorize each of the following cubic polynomials by factor theorem

- i. $x^3 - 2x^2 - x + 2$
- ii. $x^3 - x^2 - 22x + 40$
- iii. $x^3 - 6x^2 + 3x + 10$
- iv. $x^3 + x^2 - 10x + 8$

Lecture Video Link

<https://www.youtube.com/watch?v=f65UQugzCAw>

https://www.youtube.com/watch?v=3UkzJ0j_hgc

DAY – 3

Factorize each of the following cubic polynomials by factor theorem

- i. $x^3 - 2x^2 - 5x + 6$
- ii. $3x^3 - x^2 - 12x + 4$
- iii. $x^3 + 5x^2 - 2x - 24$
- iv. $2x^3 + x^2 - 2x - 1$

Lecture Video Link

<https://www.youtube.com/watch?v=f65UQugzCAw>

https://www.youtube.com/watch?v=3UkzJ0j_hgc

WEEK - 3**DAY - 1**

Find H.C.F of the following expressions by factorization

- i. $x^2 + 5x + 6$, $x^2 - 4x - 12$
- ii. $x^3 - 27x$, $x^2 - 6x - 27$, $2x^2 - 18$
- iii. $x^3 - 2x^2 + x$, $x^2 + 2x - 3$, $x^2 + 3x - 4$
- iv. $18(x^3 - 9x^2 + 8x)$, $24(x^2 - 3x + 2)$

Lecture Video Link

<https://www.youtube.com/watch?v=pj-t8Cm5Zhw>

DAY - 2

Find the H.C.F of the following by division method.

- i. $x^3 - 3x^2 - 16x + 12$, $x^3 + x^2 - 10x + 8$
- ii. $x^4 + x^3 - 2x^2 + x - 3$, $5x^3 - 3x^2 - 17x + 6$,
- iii. $2x^5 - 4x^4 - 6x$, $x^5 - x^4 - 3x^3 - 3x^2$

Lecture Video Link

<https://www.youtube.com/watch?v=pj-t8Cm5Zhw>

DAY- 3

Find the L.C.M of the following expression

- i. $39x^7 y^3 z$ and $91 x^5 y^6 z^7$
- ii. $102x^2 y^2 z$, $85x^2 y^2 z^2$ and $187 xy z^2$

Q: Waqas wishes to distribute 128 bananas and also 176 apples equally among a certain number of children. Find the highest number of children who can get the fruit in this way.

Lecture Video Link

<https://www.youtube.com/watch?v=pj-t8Cm5Zhw>

Week 4**Day - 1**

- i. $\frac{x^2 - x - 6}{x^2 - 9} + \frac{x^2 + 2x - 24}{x^2 - x - 12}$
- ii. $\frac{(x+2)(x+3)}{x^2 - 9} + \frac{(x+2)(2x^2 - 32)}{(x-4)(x^2 - x - 6)}$
- iii. What rational expression should be subtracted from?

$$\frac{2x^2 + 2x - 7}{x^2 + x - 6} \text{ to get } \frac{x - 1}{x - 2}$$
- iv. $\frac{x + 3}{2x^2 + 9x + 9} + \frac{1}{2(2x - 3)} - \frac{4x}{4x^2 - 9}$

Lecture Video Link

<https://www.youtube.com/watch?v=pUFEiOBK9eM>

Day -2

i. Perform the indicating operation simplify the lowest form

i. $\frac{x^2+x-6}{x^2-x-6} \times \frac{x^2-4}{x^2-9}$

ii. $\frac{x^3-8}{x^2-4} \times \frac{x^2+6x+8}{x^2-2x+1}$

iii. $\frac{x^4-8x}{2x^2+5x-3} \times \frac{2x-1}{x^2+2x+4} \times \frac{x^2-x-6}{x^2-9} + \frac{x+3}{x^2-2x}$

iv. $\frac{2y^2+7y-4}{3y^2-13y+4} \div \frac{4y^2-1}{6y^2+y-1}$

v. $\left[\frac{x^2+y^2}{x^2-y^2} - \frac{x^2-y^2}{x^2+y^2} \right] \div \left[\frac{x+y}{x-y} - \frac{x-y}{x+y} \right]$

Lecture Video Link

<https://www.youtube.com/watch?v=pUFEiOBK9eM>

DAY – 3

Q: Use factorization to find the square root of the following expressions

i. $4x^2 - 12xy + 9y^2$

ii. $x^2 - 1 + \frac{1}{4x^2}$

iii. $\frac{1}{16}x^2 - \frac{1}{12}xy + \frac{1}{36}y^2$

iv. $\frac{4x^6 - 12x^3y^3 + 9y^6}{9x^4 + 12x^2y^2 + 16y^4}$

Lecture Video Link

<https://www.youtube.com/watch?v=MJxJai7FA9Q>

WEEK – 5**DAY - 1**

Q: Use factorization to find the square root of the following expressions

- i. $(x^2 + 3x + 2)(x^2 + 4x + 3)(x^2 + 5x + 6)$
- ii. $(x^2 + 8x + 7)(2x^2 - x - 3)(2x^2 + 11x - 21)$
- iii. $\left(x + \frac{1}{x}\right)^2 - 4\left(x - \frac{1}{x}\right)$
- iv. $4x^2 + 8x - 5$

Lecture Video Link

<https://www.youtube.com/watch?v=MJxJai7FA9Q>

DAY – 2

Q:Use division method to find the square root of the following expressions

- i. $(4x^2 + 12xy + 9y^2 + 16x + 24y + 16)$
- ii. $x^4 - 10x^3 + 37x^2 + 9y^2 - 60x + 36$
- iii. $4 + 25x^2 - 37x^3 + 16y^4 - 12x$

Q:Find the value of the k using square root method

$$4x^4 - 12x^3 + 37y^2 - 42x + k$$

Lecture Video Link

<https://www.youtube.com/watch?v=MJxJai7FA9Q>

DAY – 3**Definition**

Raising each side of the equation to a certain power may produce a nonequivalent equation that has more solutions than the original equation. These additional solutions are called extraneous solutions. We must check our answer(s) for such solutions when working with radical equations.

Q: Solve the following equations

$$(i) \quad \frac{2}{3}x - \frac{1}{2}x = x + \frac{1}{6}$$

$$(ii) \quad \frac{x-3}{3} - \frac{x-2}{2} = -1$$

$$(iii) \quad \frac{1}{2}\left(x - \frac{1}{6}\right) + \frac{2}{3} = \frac{5}{6} + \frac{1}{3}\left(\frac{1}{2} - 3x\right)$$

$$(iv) \quad x + \frac{1}{3} = 2\left(x - \frac{2}{3}\right) - 6x$$

$$(v) \quad \frac{5(x-3)}{6} - x = 1 - \frac{x}{9}$$

$$(vi) \quad \frac{x}{3x-6} = 2 - \frac{2x}{x-2}, \quad x \neq 2$$

Lecture Video Link

<https://www.youtube.com/watch?v=mc6dOWnYM9M>

WEEK – 6**DAY – 1**

Q: Solve the following equations

$$(vii) \quad \frac{2x}{2x+5} = \frac{2}{3} - \frac{5}{4x+10}, \quad x \neq -\frac{5}{2}$$

$$(viii) \quad \frac{2x}{x-1} + \frac{1}{3} = \frac{5}{6} + \frac{2}{x-1}, \quad x \neq 1$$

$$(ix) \quad \frac{2}{x^2-1} - \frac{1}{x+1} = \frac{1}{x+1}, \quad x \neq \pm 1$$

$$(x) \quad \frac{2}{3x+6} = \frac{1}{6} - \frac{1}{2x+4}, \quad x \neq -2$$

2. Solve each equation and check for extraneous solution, if any.

$$(i) \quad \sqrt{3x+4} = 2$$

$$(ii) \quad \sqrt[3]{2x-4} - 2 = 0$$

$$(iii) \quad \sqrt{x-3} - 7 = 0$$

$$(iv) \quad 2\sqrt{t+4} = 5$$

Lecture Video Link

<https://www.youtube.com/watch?v=mc6dOWnYM9M>

DAY – 2**Example**

Solve $|8x - 3| = |4x + 5|$

Solution

Since two numbers having the same absolute value are either equal or differ in sign, therefore, the given equation is equivalent to

$$8x - 3 = 4x + 5 \quad \text{or} \quad 8x - 3 = -(4x + 5)$$

$$4x = 8 \quad \text{or} \quad 12x = -2$$

$$x = 2 \quad \text{or} \quad x = -1/6$$

On checking we find that $x = 2$, $x = -\frac{1}{6}$ both satisfy the original equation.

Hence the solution set = $\left\{ -\frac{1}{6}, 2 \right\}$.

Identify the following statements as True or False.

- (i) $|x| = 0$ has only one solution.
- (ii) All absolute value equations have two solutions.
- (iii) The equation $|x| = 2$ is equivalent to $x = 2$ or $x = -2$
- (iv) The equation $|x - 4| = -4$ has no solution.
- (v) The equation $|2x - 3| = 5$ is equivalent to $2x - 3 = 5$ or $2x + 3 = 5$

Lecture Video Link

<https://www.youtube.com/watch?v=Tuv8sIJJNSM>

DAY – 3**Solve for x**

- (i) $|3x - 5| = 4$ (ii) $\frac{1}{2}|3x + 2| - 4 = 11$
- (iii) $|2x + 5| = 11$ (iv) $|3 + 2x| = |6x - 7|$
- (v) $|x + 2| - 3 = 5 - |x + 2|$ (vi) $\frac{1}{2}|x + 3| + 21 = 9$
- (vii) $\left| \frac{3 - 5x}{4} \right| - \frac{1}{3} = \frac{2}{3}$ (viii) $\left| \frac{x + 5}{2 - x} \right| = 6$

Lecture Video Link

<https://www.youtube.com/watch?v=Tuv8sIJJNSM>

WEEK-7**DAY - 1****Defining Inequalities**

Let a, b be real numbers. Then a is greater than b if the difference $a - b$ is positive and we denote this order relation by the inequality $a > b$. An equivalent statement is that in which b is less than a , symbolised by $b < a$. Similarly, if $a - b$ is negative, then a is less than b and expressed in symbols as $a < b$.

Properties of Inequalities (Learn and Understand)**1 Law of Trichotomy**

For any $a, b \in \mathbb{R}$, one and only one of the following statements is true.

$$a < b \text{ or } a = b, \text{ or } a > b$$

An important special case of this property is the case for $b = 0$; namely,

$$a < 0 \text{ or } a = 0 \text{ or } a > 0 \text{ for any } a \in \mathbb{R}.$$

2 Transitive Property

Let $a, b, c \in \mathbb{R}$.

- (i) If $a > b$ and $b > c$, then $a > c$
- (ii) If $a < b$ and $b < c$, then $a < c$

3 Additive Closure Property For $a, b, c \in \mathbb{R}$,

- (i) If $a > b$, then $a + c > b + c$
If $a < b$, then $a + c < b + c$
- (ii) If $a > 0$ and $b > 0$, then $a + b > 0$
If $a < 0$ and $b < 0$, then $a + b < 0$

4 Multiplicative Property

Let $a, b, c, d \in \mathbb{R}$

- (i) If $a > 0$ and $b > 0$, then $ab > 0$, whereas $a < 0$ and $b < 0 \Rightarrow ab > 0$
- (ii) If $a > b$ and $c > 0$, then $ac > bc$
or if $a < b$ and $c > 0$, then $ac < bc$
- (iii) If $a > b$ and $c < 0$, then $ac < bc$
or if $a < b$ and $c < 0$, then $ac > bc$

The above property (iii) states that the sign of inequality is reversed if each side is multiplied by a negative real number.

- (iv) If $a > b$ and $c > d$, then $ac > bd$

Lecture Video Link

<https://www.youtube.com/watch?v=IICDB-xzKgg>

<https://www.youtube.com/watch?v=XSKLb6kXJIQ>

DAY – 2**Solve the following inequalities**

(i) $3x + 1 < 5x - 4$

(ii) $4x - 10.3 \leq 21x - 1.8$

(iii) $4 - \frac{1}{2}x \geq -7 + \frac{1}{4}x$

(iv) $x - 2(5 - 2x) \geq 6x - 3\frac{1}{2}$

(v) $\frac{3x+2}{9} - \frac{2x+1}{3} > -1$

(vi) $3(2x + 1) - 2(2x + 5) < 5(3x - 2)$

(vii) $3(x - 1) - (x - 2) > -2(x + 4)$

(viii) $2\frac{2}{3}x + \frac{2}{3}(5x - 4) > -\frac{1}{3}(8x + 7)$

Lecture Video Link<https://www.youtube.com/watch?v=IcDB-xzKgg><https://www.youtube.com/watch?v=XSKLb6kXJIQ>**Day-3****Solve the following inequalities**

(i) $-4 < 3x + 5 < 8$

(ii) $-5 \leq \frac{4 - 3x}{2} < 1$

(iii) $-6 < \frac{x-2}{4} < 6$

(iv) $3 \geq \frac{7-x}{2} \geq 1$

(v) $3x - 10 \leq 5 < x + 3$

(vi) $-3 \leq \frac{x-4}{-5} < 4$

(vii) $1 - 2x < 5 - x \leq 25 - 6x$

(viii) $3x - 2 < 2x + 1 < 4x + 17$

Lecture Video Link<https://www.youtube.com/watch?v=IcDB-xzKgg><https://www.youtube.com/watch?v=XSKLb6kXJIQ>

اردو اینڈ اسلامیات سلیبس برائے جماعت نہم

جون ، جولائی 2020

عمومی ہدایات برائے طلباء و والدین

1. اردو کی لکھائی خوشخط کریں۔

2. کام نیٹ کاپی پر کریں۔

3. حاشیہ ضرور لگائیں۔

4. والدین سے درخواست ہیں کہ چھٹیوں کو کارآمد بنانے کے لئے دیا گیا کام اپنی نگرانی میں کروائیں اور جہاں کہیں بھی ضرورت ہو متعلقہ استانی سے رابطہ کریں۔

5. ہمارا بنیادی مقصد یہ ہے کہ آپ کا تعلق اپنی تعلیم سے جڑا رہے۔ اسی مقصد کے تحت آپ کے لئے تخلیقی اور تعلیمی سرگرمیوں سے بھرپور تعطیلات کا کام تیار کیا گیا ہے۔

پہلا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
1 جون	بجرات نبوی	3-2	بلند خوانی	کتاب	
2 جون	بجرات نبوی	3-2	مشقی سوالات	کتاب	آپ ﷺ کے سیرت پر مضمون لکھیں
	مرزا غالب کے عادات و خصائل	10-8	بلند خوانی	نوٹس	الطاف حسین خالی کی حالت زندگی بیان کریں
3 جون	بجرات نبوی	3-2	س نمبر 5-2	مواد	مضمون لکھوانا
	مرزا غالب کے عادات و خصائل	10-8	مشقی سوالات کے جوابات اور قواعد	ورک شیٹ	الطاف حسین خالی کی حالت زندگی بیان کریں (دہرائی)

ورک شیٹ نمبر 1

س نمبر 1- ذیل الفاظ کے جملے بنائے۔

1- دعوت حق:

2- ہدف:

3- مصیوب:

4- خون

.....: پبا

نمبر؛ 2 ہجرت

سوال نبوی سے کیا مراد ہے تفصیل سے بیان کریں

CPES

دوسرا ہفتہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
		بلند خوانی	16-15	کابلی	8 جون
کابلی کے نقصانات بیان کریں	کتاب	مشقی سوالات	16-15	کابلی	9 جون
شاعیری پر نوٹ لکھیں	ورک شیٹ	بلند خوانی	23-22-21	شاعروں کے لطیفے	
	نوٹس	مشق حل کرنا	16-15	کابلی	10 جون
شاعری کی دہرائی کریں	ورک شیٹ	مشق حل کرنا	23-22-21	شاعروں کے لطیفے	

ورک شیٹ نمبر 2

س نمبر 1 ؛ عنوان کاہلی پر مضمون لکھیں ؟

ج:

س نمبر 2۔ آزاد کی کتاب آب حیات کے علاوہ کوئی اور لطیفہ لکھیں۔

ج:

س نمبر 3۔ میر تقی میر کی کوئی غزل درست لفظ کے ساتھ پڑھیں۔

ج:

تیسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
15 جون	منصوح اور سلیم کی گفتگو	28-31	بلند خوانی	کتابی مواد	نیک صحبت کے عنوان پ مکالمہ لکھیں
16 جون	منصوح اور سلیم کی گفتگو	28-31	مشق اور مشقی سوالات	نوٹس ورک شیٹ	عادل وانصاف پر نوٹ لکھیں
17 جون	پنچایت	36-42	بلند خوانی	نوٹس	مشق حل کرنا

ورک شیٹ نمبر 3

س نمبر 1 ؛ ناول کو تفصیل سے بیان کریں ؟

ج:

س نمبر 2۔ افسانہ نگار پرچم چند کا کوئی اور افسانہ بیان کریں۔

ج:

چوتھا ہفتہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
کسی اور شاع کے کلام سے حمد تلاش کر کے لکھیں	کتابی مواد	بلند خوانی	107-106	حمد	22 جون
تشریح بیان	کتابی مواد	سوال نمبر 4،3،2،1،	107-108	حمد	23 جون
کسی اور شاع کے کلام سے حمد تلاش کر کے لکھیں (دہرائی کریں)	نوٹس ، ورک شیٹ	سوال نمبر 9،8،7،6،5	108- 109	حمد	24 جون

ورک شیٹ نمبر 4

س نمبر 1 - شعر :

دل ناداں تجھے بوا کیا ہے

آخر اس درد کی دوا کیا ہے

ذیل بند میں قافیہ کی نشاندہی کریں

س نمبر 2 - شعر

کوئی امیر پر نہیں آئی

کوئی صورت نظر نہیں آئی

نوٹ : ردیف کی تعریف کریں اور ذیل بند میں ردیف کی پہچان کریں

پانچواں ہفتہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
نظم "برسات" کے موضوع پر طلبہ کے درمیان مضمون نویسی کا مقابلہ	کتابی مواد	بلند خوانی	115-116	برسات کی پہاریں	29 جون
	نوٹس	س نمبر، 5،4،3،2،1	115-116-117	برسات کی پہاریں	30 جون
نظم کی دہرائی کریں	ورک شیٹ	س نمبر، 6، 7، 8، 9	118، 117، 116، 115	برسات کی پہاریں	1 جولائی

ورک شیٹ نمبر 5

س نمبر 1۔ تشبیہ کی تعریف لکھیں

1۔ اسکے دانت موتیوں کی طرح سفید ہیں ۔

اس کا دل پتھر کی طرح سخت ہیں ۔

وہ لومڑی کی طرح چلاک ہیں ۔

ذیل جملوں میں تشبیہ کی پہچان کریں ۔

ج:

س نمبر 2۔ نظم کے پیلے بند میں سے قافیہ تلاش کر کے لکھیں ۔

ج:

چھٹا بقیہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
اس غزل کو زبانی یاد کریں	کتابی مواد	بلند خوانی	136	غزل دل نادان	6 جولائی
مرزا اسد اللہ خان غالب لنک video	ورک شیٹ	س نمبر 5،4،3،2،1	136	غزل دل نادان	7 جولائی
تشریح کریں	نوٹس	س نمبر 7،8،9	137-138	غزل دل نادان	8 جولائی

ورک شیٹ نمبر 6

س نمبر 1۔ کنا یہ کی تعریف بیان کریں۔ اور چند مثالیں لکھیں۔

ج:

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.....

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.....

س نمبر 2۔ غزل کی تعریف اور کسی بھی غزل کا کوئی بند لکھیں۔

ج:

.....

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.....

.....

ساتواں ہفتہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
اس غزل ک زبانی یاد کریں و	کتابی مواد	بلند خوانی	141	غزل : بہادر شاہ ظفر	13 جولائی
ویڈیو لنک (بہادر شاہ ظفر)	نوٹس	تشریح سوال نمبر 1-4	141-142	غزل : بہادر شاہ ظفر	14 جولائی
دہرائی کریں	کتابی مواد	سوال نمبر 10،5	143-143	غزل : بہادر شاہ ظفر	15 جولائی

ورک شیٹ نمبر 7

س نمبر 1۔ مجاز مرسل کی تعریف اور مثالیں دیں۔

.....:

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.....

س نمبر 2۔ مقطع ، مقطع کی تعریف بیان

.....:

.....

.....

.....

PHYSICS

Week #1

Day-1

Chapter#1 Physical Quantities and Measurements

Topic: Introduction to Physics and its branches

Video Link: <https://www.youtube.com/watch?v=-8TD1Uud2oA>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. The study of matter, energy and their relationship is called:
 - a. Physics
 - b. bio-physics
 - c. mechanics
 - d. plasma
- ii. Study of structure and properties of atoms is called:
 - a. Nuclear physics
 - b. atomic physics
 - c. Heat
 - d. thermodynamics

2-Briefly answer the following questions.

- i. What is Science?

Ans: _____

 _____.

- ii. Why do we study Physics?

Ans: _____

 _____.

- iii. Describe the division of science two main stream.

Ans
 : _____

 _____.

- iv. Define Physics.

Ans
 : _____

 _____.

Day-2

Topic:1- Physical Quantities

2- Prefixes

Video Link: 1- <https://www.youtube.com/watch?v=ypRQp1-HxIQ&t=10s>2- https://www.youtube.com/watch?v=RfShF6M_fEo3- https://www.youtube.com/watch?v=Yodd_Jrlqgk**Activity:** Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.**Worksheet:**

1-Choose the correct option.

- i. Which one of the following is not a base quantity?
 a. length b. Temperature c. Time d. force
- ii. Which one of the following is base quantity?
 a. Force b. momentum c. acceleration d. intensity of light

2-Briefly answer the following questions.

- i. What is the difference between base quantities and derived quantities?

Ans

: _____

- ii. Define Prefixes with suitable examples.

Ans

: _____

3- Express the following quantities using prefixes.

a- 2000000 W

b- 500g

4-Express the given numbers in scientific notation.

a. 3000000000 ms⁻¹

b. 600000 m

5- Briefly answer the following questions.

- i. What do you understand by Scientific Notation?

Ans

Day- 3

Video Link: <https://www.youtube.com/watch?v=-vncDFRk9p0>
<https://www.youtube.com/watch?v=WiyZQ7VeV3U>
<https://www.youtube.com/watch?v=5nGm7pPf3Hw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Least count of meter rod is:

a. 1mm

b. 1cm

c. 1cm

d. 0.1 mm

2- Briefly answer the following questions.

- i. What is measuring tape?

Ans

:

- ii. What is meter rule?

Ans

:

3 -Choose the correct option:

- i. The most accurate balance to measure the mass of an object is:
 - a. Electronic balance
 - b. spring balance
 - c. physical balance
 - d. none of these
- ii. Digital stop watch can measure the time interval.
 - a. 1 sec
 - b. 1/10 sec
 - c. 1/100 sec
 - d. 1/1000 se

4- Briefly answer the following questions.

- i. Which instrument is the best to measure the mass?

Ans

:_____

- ii. How to use a stopwatch?

Ans:

Week #2

Day- 1

Topic: 1-Significant Figures

2- Exercise

Video Link: 1- https://www.youtube.com/watch?v=-Nvx6_yQwls
 2- <https://www.youtube.com/watch?v=21WhlYke0I&pbjreload=10>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. The number of significant figures in 0.002070 are:
 - a. 6
 - b. 7
 - c. 4
 - d. 2
- ii. Number of significant figures in 275.00 are:
 - a. Three
 - b. two
 - c. six
 - d. five

2- Briefly answer the following questions.

i. Estimate your age in seconds.

Ans

: _____

_____.

ii. What do you understand by zero error of a measuring instrument?

Ans : _____

_____.

Week #2

Day- 2

Chapter#1 Physical Quantities and Measurements

Topic: Exercise Numerical Problems

Video Link: <https://www.youtube.com/watch?v=8rl24AaLvzQ> (1.1-1.3)
<https://www.youtube.com/watch?v=PCAok4cJF6l>
<https://www.youtube.com/watch?v=VMkKpAU4eHw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

i. How do the prefixes micro, nano, pico relate to each other?

Ans _____

_____.

- ii. Your hair grow at the rate of 1mm per day. Find their growth rate in nms^{-1} .
Ans

:

- iii. Write the following quantities in standard form.
a) 38000 km
b) Second in a day

- iv. A chocolate wrapper is 6.7 cm long and 5.4 cm wide. Calculate its area up to reasonable number of significant figures.

Day- 3

Topic: Introduction to Rest and Motion

Video Link: <https://www.youtube.com/watch?v=1fN9KmjDvCc>
<https://www.youtube.com/watch?v=ijzoHztJHVU>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Study of motion without discussing the cause of motion is called:
 - a. Kinematics
 - b. mechanics
 - c. rest
 - d. motion
- ii. Types of motion are:
 - a. One
 - b. two
 - c. three
 - d. four
- iii. Motion of a body in a line without rotation is:
 - a. Vibratory
 - b. translatory
 - c. random
 - d. none
- iv. Translator motion can be divided into types?
 - a. One
 - b. three
 - c. five
 - d. four

2- Briefly answer the following questions.

- i. Define kinematics.

Ans: _____

- ii. Differentiate rest and motion.

Ans: _____

- iii. Differentiate Linear Motion and Random Motion with example.

Ans: _____

Week #3

Day- 1

Topic: Scalar and Vector

Video Link: https://www.youtube.com/watch?v=b-FG6UN_7
https://www.youtube.com/watch?v=O_LB1wWLdiE

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Which one of the following is a scalar quantity?
a. Velocity b. force c. volume d. acceleration
- ii. Torque is a quantity:
a. Vector b. scalar c. both d. none
- iii. Length of path between two points is called:
a.Velocity b. length c. displacement d. distance
- iv. Displacement means the distance between two points is:
a. Maximum b. shortest c. medium d. longest

2- Briefly answer the following questions.

- i. Differentiate Scalar and Vector with example.

Ans _____

_____.

- ii. Define the term Velocity.

Ans: _____

_____.

- iii. Differentiate distance and displacement.

Ans : _____

_____.

Day- 2

Topic: Graphical Analysis

Video Link: <https://www.youtube.com/watch?v=MaL58bmav28>
<https://www.youtube.com/watch?v=CvFXrZxxFE8>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Briefly answer the following questions.

- i. What is graph?
Ans :

- ii. Sketch a distance time graph for a body at rest.
Ans :

- iii. Derive the second equation of motion.
Ans :

Day- 3

Topic: Exercise question

Video Link: <https://www.youtube.com/watch?v=aaX0Jf26xpw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Give short answers.

- How do riders in a Ferris wheel possess translatory motion but not circular motion?

Ans

- How are vector quantities represented graphically?

Ans:

Week #4

Day-1

Topic: Exercise Numericals

Video Link: <https://www.youtube.com/watch?v=wWIGT8NhoXU> (2.1-2.3)
[https://www.youtube.com/watch?v= HT2yRliDkE&t=65s](https://www.youtube.com/watch?v=HT2yRliDkE&t=65s) (2.4-2.6)

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Solve this problem.

- i. A train starts from rest. It move through 1 km in 100s with uniform acceleration. What will be its speed at the end of 100s?

- ii. A cricket ball is hit vertically upward and return to ground 6s later. Calculate
 - a) Maximum height reached by the ball
 - b) Initial velocity of the ball

Day-2

Topic: Introduction Force, inertia and Momentum

Video Link: <https://www.youtube.com/watch?v=AnMzYGHxUSw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Quantity of motion of a body it possessed due to its mass and velocity is called
a. Force b. momentum c. motion d. dynamics
- ii. The momentum P is equal to:
a. mV b. $m^2 V^2$ c. m/V d. V/m

2- Briefly answer the following questions.

Define the terms

- a. Dynamics
b. Force

3- Prove 2nd Law of Motion.

Day-3

Topic: 1-Newton's LAW (3rd)
2- Force and Momentum

Video Link: <https://www.youtube.com/watch?v=BKkgMSBHrsQ>

<https://www.youtube.com/watch?v=WyQproCgepw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Action and reaction always act on:
a. Same body b. one body c. two different bodies d. three bodies
- ii. Movement of the rocket is an example of Newton's
a. Gravitational law b. 2nd law c. first law d. third law

2-Briefly answer the following questions.

- i. Which is action?

Ans :

- ii. Is there any reaction?

Ans :

- iii. State and prove 3rd Law of Motion

Week # 5**Day-1**

Topic: Law of conservation of momentum

Video Link: <https://www.youtube.com/watch?v=lwNpL8lofj4>
https://www.youtube.com/watch?v=-ca_U88aYjQ

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

1-Choose the correct option.

- i. Product of mass and velocity is equal to:
 - a. momentum
 - b. force
 - c. work
 - d. tension
- ii. the momentum of an isolated system is:
 - a. zero
 - b. maximum
 - c. remain constant
 - d. minimum
- iii. the force that oppose the motion of an object is called:
 - a. momentum
 - b. torque
 - c. tension
 - d. friction

2-Briefly answer the following questions.

- i. What is system?

Ans :

- ii. State the law of conservation of momentum.

Ans :

- iii. What do you know about friction?

Ans

:

iv. Have you notice why a moving ball stops?

Ans

: _____

_____.

v. Why bicycle stops when the cyclist stop paddling?

Ans

: _____

_____.

vi. What do you know about coefficient of friction?

Ans

: _____

_____.

Day-2

Topic: 1- Advantages And Disadvantages Of Friction

2- Banking of roads

Video Link: <https://www.youtube.com/watch?v=HA8nXaX5mLA>
<https://www.youtube.com/watch?v=cE4ggsdvJVU>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1-Why is it dangerous to drive on a wet road?

ANS-

_____.

Q2- Why a cyclist applies brakes stop his/her bicycle.

ANS-

_____.

Q3. Write any two advantages of friction.

Ans: _____

Day-3

Topic: Uniform Circular motion

Video Link: <https://www.youtube.com/watch?v=u8cW9MWMv0M>
<https://www.youtube.com/watch?v=cEamSq1D09I>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1-Define uniform circular motion.

ANS-

Q2- Define Centripetal Force.

ANS-

Q3. What is centrifugal force?

Ans: _____

Q1-Define the term force of friction.

ANS-

Q2- What is difference between mass and weight?

ANS-

Q3 What is law of inertia?

Ans: _____

Week # 6**Day-1**

Topic: Exercise Question Answer (3.6-3.10)

Video Link: <https://www.youtube.com/watch?v=YhKZFIMRVAE&t=18s>
<https://www.youtube.com/watch?v=kTQHKJDxxY4>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1-Why does a passenger move outward when a bus takes a turn?

ANS-

Q2- Action and reaction are always equal and opposite. How does it help the body to move forward?

ANS-

Q3- Why the law of conservation of momentum is important?

ANS-

Q4- When a gun is fired, it recoils, why?

ANS-

Q5 Describe ways to reduce friction.

Ans:

Day-2

Topic: Exercise Numerical (3.1-3.10)

Video Link: <https://www.youtube.com/watch?v=TIKoJfdsftk&t=27s>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Solve this

Q1- How much force is needed to prevent a body of mass 10kg from falling?

Q2- How much time is required to change 22 Ns momentum by a force of 20 N?

Day-3

Topic: 1- Like and unlike parallel forces

2- Addition of Forces

Video Link: <https://www.youtube.com/watch?v=bfD4fCSWuFE>

<https://www.youtube.com/watch?v=gHf6rtucWgc>

<https://www.youtube.com/watch?v=jldym6UkTdU>

<https://www.youtube.com/watch?v=z7b2OwJxEAU>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1- What do parallel forces mean.

Q2- What is the difference between like and unlike parallel forces?

Q3- Define resultant vector.

Q4- Why it is easy to close or open the door by pulling or pushing it at its axis?

Q5- What do you mean by axis of rotation?

Q6- Define Moment or arm.

Week # 7**Day-1**

Chapter# 4 Turning effect of forces

Topic: 1- Principle of Moments

2- Centre of Mass.

Video Link : <https://www.youtube.com/watch?v=k7kWU5sbEsU>

<https://www.youtube.com/watch?v=5Bmo9mkmyZY>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1- Explain how two children of unequal weights can play on see-saw?

Q2- Define center of mass.

Q3- Define center of gravity.

Q4- Differentiate stable and unstable equilibrium?

Day-2

Topic: 1- Couple

2-Equilibrium conditions

Video Link: <https://www.youtube.com/watch?v=FDKL5xFHiHE>
<https://www.youtube.com/watch?v=19x2Nfm50I4>
<https://www.youtube.com/watch?v=QiYwoW3GgHE>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Briefly answer the following questions.

Q1- When does a body is said to be in equilibrium?

Q2- What is second condition for equilibrium?

Q3- How does a paratrooper comes down after jumping from an aircraft?

Q4 - Find the perpendicular components of a force of 50N making angle of 30° with x axis.

Day-3

Topic: 1-Exercise Numerical (4.6-4.10)

Video Link: 1- <https://www.youtube.com/watch?v=XjbaVSwwtVw>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Solve this problem.

Q1- The steering of a car has a radius 16cm. Find the torque produced by a couple of 50 N.

CHEMISTRY

Week-1:

Day	Topic	Video Links	Task																																				
Day 1	Chemical Formula	https://www.youtube.com/watch?time_continue=1&v=y6p9FWIG7-I&feature=emb_title	<p>Q. Fill in the missing spaces in the table below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #e1f5fe;">Name of substance</th> <th style="background-color: #e1f5fe;">Diagram of molecule</th> <th style="background-color: #e1f5fe;">Chemical formula</th> <th style="background-color: #e1f5fe;">Element or compound?</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Carbon dioxide</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Ammonia</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Sulfur dioxide</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Hydrogen</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Hydrogen chloride</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> <tr> <td>Oxygen</td> <td style="text-align: center;"></td> <td></td> <td></td> </tr> </tbody> </table>	Name of substance	Diagram of molecule	Chemical formula	Element or compound?	Water				Nitrogen				Carbon dioxide				Ammonia				Sulfur dioxide				Hydrogen				Hydrogen chloride				Oxygen			
Name of substance	Diagram of molecule	Chemical formula	Element or compound?																																				
Water																																							
Nitrogen																																							
Carbon dioxide																																							
Ammonia																																							
Sulfur dioxide																																							
Hydrogen																																							
Hydrogen chloride																																							
Oxygen																																							
Day 2	Elements, Compounds & Mixtures	https://www.youtube.com/watch?v=Cf0iWP Cuz-U https://www.youtube.com/watch?v=iXWbL EAvJQ https://www.youtube.com/watch?v=kKxhCt pbBDM	<p>Elements, Compounds & Mixtures Worksheet</p> <p>Q. Describe the picture below. Are they Elements, Compounds or Mixtures? Are they atoms or molecules?</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center;"> <input type="text"/> </div> <div style="text-align: center;"> <input type="text"/> </div> <div style="text-align: center;"> <input type="text"/> </div> <div style="text-align: center;"> <input type="text"/> </div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">A </div> <div style="text-align: center;">B </div> <div style="text-align: center;">C </div> <div style="text-align: center;">D </div> <div style="text-align: center;">E </div> <div style="text-align: center;">F </div> <div style="text-align: center;">G </div> <div style="text-align: center;">H </div> </div> <p>1- Which of the above picture (A-H) represents atom of an</p>																																				

- element?
 2- Which of the above picture represents molecules of an element?
 3- Which of the picture displays mixture of atoms?
 4- Which of the picture displays mixture of atoms and compounds?
 5- Which of the picture displays molecules of compounds?
 6- Which of the picture shows atoms of an element which is solid?

Day 3

Rutherford & Bohr's Atomic Structures

https://www.youtube.com/watch?v=fnABdg0tp_s

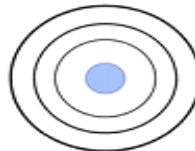
<https://www.youtube.com/watch?v=fm2COovz-3M>

Electrons Arrangement

Directions: On the Bohr model, add the correct number of electrons for each element. Then identify how many protons, electrons and neutrons the element has, its atomic number and atomic mass.

Electron Arrangement, Atomic number, Atomic Mass

Hydrogen



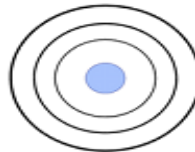
Protons _____
 Neutrons _____
 Electrons _____
 Atomic Number _____
 Atomic Mass _____

Carbon



Protons _____
 Neutrons _____
 Electrons _____
 Atomic Number _____
 Atomic Mass _____

Oxygen



Protons _____
 Neutrons _____
 Electrons _____
 Atomic Number _____
 Atomic Mass _____



Week-2:

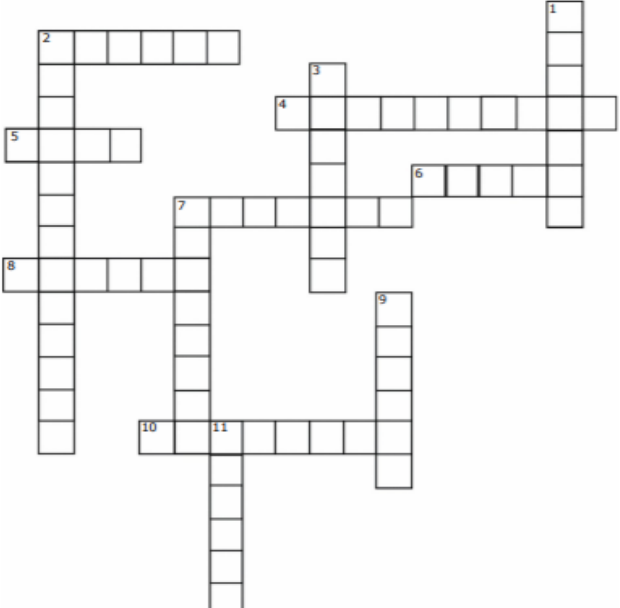
Day	Topic	Video Links	Task										
Day 1	Atomic Structures	https://www.youtube.com/watch?v=upPZcEZKgok	<p>Mention the atomic number and mass number of the given elements and then draw their atomic structures in the given boxes. Helium is done for you! Don't forget 2 electrons on the first ring, 8 on every one after.</p> <p style="text-align: center;"><u>Drawing Atomic Structures</u></p>										
Day 2	Moles, Grams, Atoms, Molar Mass	https://www.youtube.com/watch?v=74-X94QP2XI	<p>Q. What are the molecular weights of the following compounds?</p> <p>1) NaOH 2) H₃PO₄ 3) H₂O 4) Mn₂Se₇ 5) MgCl₂</p> <p>Q. Solve the following:</p> <ol style="list-style-type: none"> How many moles are in 15 grams of lithium? How many grams are in 2.4 moles of sulfur? How many moles are in 22 grams of argon? How many grams are in 88.1 moles of magnesium? How many moles are in 2.3 grams of phosphorus? How many grams are in 11.9 moles of chromium? How many moles are in 9.8 grams of calcium? How many grams are in 238 moles of arsenic? 										
Day 3	Ionic & Covalent Bonds	https://www.youtube.com/watch?v=65H15VgLIwc https://www.youtube.com/watch?v=l309k_ahL3U	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: center; border-right: 1px solid black;"><u>Ionic Compounds</u></th> <th style="text-align: center;"><u>Covalent Compounds</u></th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; text-align: center;"> Sodium Chlorine </td> <td style="text-align: center;"> Hydrogen Hydrogen </td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center;"> Potassium Chlorine </td> <td style="text-align: center;"> Hydrogen Chlorine </td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center;"> Calcium Oxide </td> <td style="text-align: center;"> Hydrogen Carbon </td> </tr> <tr> <td style="border-right: 1px solid black; text-align: center;"> Magnesium Oxide </td> <td style="text-align: center;"> Hydrogen Oxygen </td> </tr> </tbody> </table>	<u>Ionic Compounds</u>	<u>Covalent Compounds</u>	 Sodium Chlorine	 Hydrogen Hydrogen	 Potassium Chlorine	 Hydrogen Chlorine	 Calcium Oxide	 Hydrogen Carbon	 Magnesium Oxide	 Hydrogen Oxygen
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 Potassium Chlorine	 Hydrogen Chlorine												
 Calcium Oxide	 Hydrogen Carbon												
 Magnesium Oxide	 Hydrogen Oxygen												

Week-3:

Day	Topic	Video Links	Task																																													
Day 1	Solution & its types	https://www.youtube.com/watch?v=CF7II Pb-OWM	<p>Q. Complete the following table.</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Property</th> <th>Suspension</th> <th>Colloidal Solution</th> <th>True Solution</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Particle size</td> <td>Greater than 10^{-7} m</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Nature</td> <td></td> <td>Heterogeneous</td> <td></td> </tr> <tr> <td>3</td> <td>Appearance</td> <td></td> <td>May show translucence</td> <td></td> </tr> <tr> <td>4</td> <td>Visibility of particles</td> <td>Visible to naked eye or simple microscope.</td> <td></td> <td>Invisible</td> </tr> <tr> <td>5</td> <td>Filterability</td> <td></td> <td>Pass through ordinary filter paper but not through ultra filter and animal membrane.</td> <td></td> </tr> <tr> <td>6</td> <td>Diffusion of particles</td> <td>Do not diffuse.</td> <td>Diffuse slowly.</td> <td>Diffuse rapidly.</td> </tr> <tr> <td>7</td> <td>Settling of particles under gravity</td> <td>Particles settle on standing.</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>Tyndall effect</td> <td></td> <td>Show Tyndall effect.</td> <td>Do not show Tyndall effect.</td> </tr> </tbody> </table>	S.No.	Property	Suspension	Colloidal Solution	True Solution	1	Particle size	Greater than 10^{-7} m			2	Nature		Heterogeneous		3	Appearance		May show translucence		4	Visibility of particles	Visible to naked eye or simple microscope.		Invisible	5	Filterability		Pass through ordinary filter paper but not through ultra filter and animal membrane.		6	Diffusion of particles	Do not diffuse.	Diffuse slowly.	Diffuse rapidly.	7	Settling of particles under gravity	Particles settle on standing.			8	Tyndall effect		Show Tyndall effect.	Do not show Tyndall effect.
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Day 2	Molarity	https://www.youtube.com/watch?v=x4m4pQ35Tsl https://www.youtube.com/watch?v=7aVa11WcjA	<p>Q1. What is the molarity of the following solutions given that:</p> <ol style="list-style-type: none"> 1.0 moles of potassium fluoride is dissolved to make 0.10 L of solution. 1.0 grams of potassium fluoride is dissolved to make 0.10 L of solution. 1.0 grams of potassium fluoride is dissolved to make 0.10 mL of solution. 952 grams of ammonium carbonate are dissolved to make 1750 mL of solution. 9.82 grams of lead (IV) nitrate are dissolved to make 465 mL of solution. <p>Q2. Solve the following:</p> <ol style="list-style-type: none"> Calculate molarity if 25.0 mL of 1.75 M HCl diluted to 65.0 mL. Calculate molarity by dissolving 25.0g NaOH in 325 mL of solution. Calculate grams of solute needed to prepare 225 mL of 0.400 M KBr solution. Calculate mL of 0.650M KNO_3 needed to contain 25.0g KNO_3. 																																													

Day 3	Moles, Grams, Atoms, Molar Mass Molarity	https://www.youtube.com/watch?v=74-X94OP2XI https://www.youtube.com/watch?v=x4m4pQ35Tsl https://www.youtube.com/watch?v=.7aVa11WcjA	Revision
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Week-4:

Day	Topic	Video Links	Task
Day 1	Periodic Table	https://www.youtube.com/watch?v=hXXyGaPZBjw	<p data-bbox="603 864 1377 898">Solve: CROSSWORD PUZZLE: The Periodic Table</p>  <div style="display: flex; justify-content: space-between;"> <div data-bbox="614 1523 1029 1870"> <p data-bbox="662 1523 734 1545">Across</p> <p data-bbox="614 1556 1029 1870"> 2. Name for the group I metals 4. The ____ metals are the elements in the middle of the periodic table. 5. The ____ number is the sum of the protons and neutrons. 6. The ____ gases are considered inactive. 7. The horizontal rows are termed ____. 8. Most elements are ____. 10. Nonmetals tend to form ions with a ____ charge. </p> </div> <div data-bbox="1045 1523 1460 1825"> <p data-bbox="1093 1523 1165 1545">Down</p> <p data-bbox="1045 1556 1460 1825"> 1. These are the most active nonmetals 2. Name for the group II metals 3. An element's atomic number is the number of ____ each atom has. 7. Metals tend to form ions with a ____ charge. 9. The atomic ____ is used to arrange the elements. 11. The vertical columns are called ____ or families. </p> </div> </div>

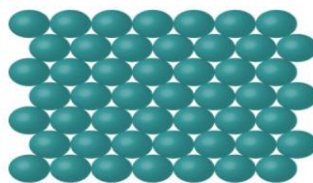
Day
2Types of
Solid

<https://www.youtube.com/watch?v=mXYosp40Pug>

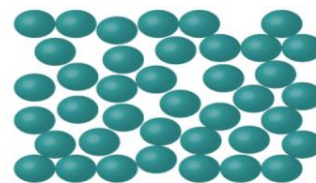
Q. Complete the following Table:

Type of Solid	Type of Particles	Type of Attractions	Properties	Examples
ionic	ions	ionic bonds	hard, brittle, conducts electricity as a liquid but not as a solid, high to very high melting points	<u>NaCl</u> , <u>Al₂O₃</u>
metallic				<u>Cu</u> , <u>Fe</u> , <u>Ti</u> , <u>Pb</u> , <u>U</u>
covalent		covalent bonds		
molecular	molecules		variable hardness, variable brittleness, not conductive, low melting points	

Q. Differentiate between crystalline and amorphous solids. Also label the diagram given below. Which one is amorphous and which one is crystalline?



(A)

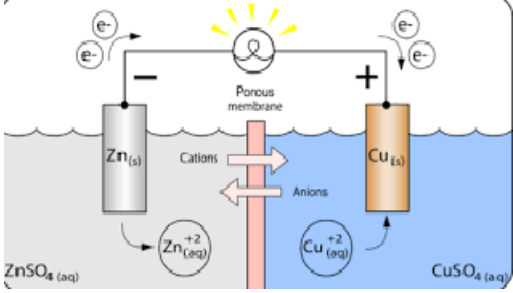


(B)

Day 3	Boyle's Law & Charles's Law	https://www.youtube.com/watch?v=2VCRZRZGrIM https://www.youtube.com/watch?v=tYUJPKHopEc https://www.youtube.com/watch?v=UBRgkwzyXkc	<p>Q. Solve the following: Remember: atm = 760.0 mm Hg = 101.3 kPa = 760.0 torr</p> <p>Charles's Law:</p> <ol style="list-style-type: none"> 1. Calculate the decrease in temperature when 6.00 L at 20.0 °C is compressed to 4.00 L 2. A container containing 5.00 L of a gas is collected at 100 K and then allowed to expand to 20.0 L. What must the new temperature be in order to maintain the same pressure (as required by Charles' Law)? 3. A gas occupies 900.0 mL at a temperature of 27.0 °C. What is the volume at 132.0 °C? <p>Boyle's Law:</p> <ol style="list-style-type: none"> 1. If 22.5 L of nitrogen at 748 mm Hg are compressed to 725 mm Hg at constant temperature. What is the new volume? 2. A gas with a volume of 4.0L at a pressure of 205kPa is allowed to expand to a volume of 12.0L. What is the pressure in the container if the temperature remains constant? 3. What pressure is required to compress 196.0 liters of air at 1.00 atmosphere into a cylinder whose volume is 26.0 liters?
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Week-5:

Day	Topic	Video Links	Task
Day 1	Electrochemistry	https://www.youtube.com/watch?v=5OnGrGDpN6g	<p>Q. Draw a voltaic cell that is constructed with a Mn/Mn²⁺ electrode and a Cd/Cd²⁺ electrodes. Use the emf table in the textbook to determine which electrode will be the cathode and which will be the anode. Your drawing should include all of the following components:</p> <ol style="list-style-type: none"> a. Label the location of each substance (Mn, Mn²⁺, Cd & Cd²⁺) b. Label the cathode and the anode. c. Label the direction of electron flow. d. Label which electrode is positively charged and which is negatively charged. e. Include a salt bridge with NaNO₃. Label the direction that each ion flows f. Write the half-cell reaction for this voltaic cell. g. Write the overall reaction taking place in this cell.

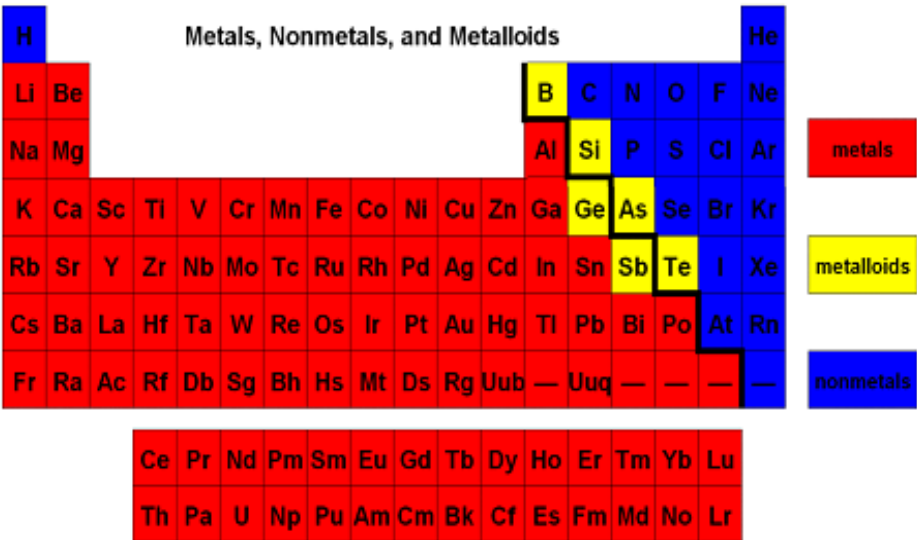
Day 2	Redox Reactions	https://www.youtube.com/watch?v=TI8qOxhk4Bw https://www.youtube.com/watch?v=gC19MNrWOWM	<p style="text-align: center;">Redox Equations</p> <p>Q1. Complete the table below by filling in the charges on the ions. The first one has been done for you.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>H</td> <td>NO₃</td> <td>SO₄</td> <td>O</td> <td>K</td> <td>Br</td> </tr> <tr> <td>+1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pb (II)</td> <td>Zn (II)</td> <td>Fe(III)</td> <td>Sn(II)</td> <td>Mg</td> <td>Cu(II)</td> </tr> </table> <p>Q2. Identify the charges on each species.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>ZnSO₄</td> <td>Zn= +2</td> <td>SO₄= -2</td> </tr> <tr> <td>PbSO₄</td> <td></td> <td></td> </tr> <tr> <td>HNO₃</td> <td></td> <td></td> </tr> <tr> <td>KBr</td> <td></td> <td></td> </tr> <tr> <td>FeSO₄</td> <td></td> <td></td> </tr> <tr> <td>MgSO₄</td> <td></td> <td></td> </tr> <tr> <td>NaCl</td> <td></td> <td></td> </tr> </table> <p>Q3. Nitrogen has 5 valence electrons (Group V). It can gain up to 3 electrons (-3), or lose up to 5 (+5) electrons. Fill in the missing names or formulas and assign an oxidation state to each of the following nitrogen containing compounds:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Name</th> <th>Formula</th> <th>Oxidation state of "N"</th> </tr> </thead> <tbody> <tr> <td></td> <td>NH₃</td> <td></td> </tr> <tr> <td>Nitrogen</td> <td></td> <td></td> </tr> <tr> <td>Nitrite</td> <td></td> <td></td> </tr> <tr> <td></td> <td>NO₃⁻</td> <td></td> </tr> <tr> <td>Dinitrogen Monoxide</td> <td></td> <td></td> </tr> <tr> <td></td> <td>NO₂</td> <td></td> </tr> <tr> <td>Hydroxylamine</td> <td>NH₂OH</td> <td></td> </tr> <tr> <td>Nitrogen Monoxide</td> <td></td> <td></td> </tr> <tr> <td>Hydrazine</td> <td>N₂H₄</td> <td></td> </tr> </tbody> </table>	H	NO ₃	SO ₄	O	K	Br	+1						Pb (II)	Zn (II)	Fe(III)	Sn(II)	Mg	Cu(II)	ZnSO ₄	Zn= +2	SO ₄ = -2	PbSO ₄			HNO ₃			KBr			FeSO ₄			MgSO ₄			NaCl			Name	Formula	Oxidation state of "N"		NH ₃		Nitrogen			Nitrite				NO ₃ ⁻		Dinitrogen Monoxide				NO ₂		Hydroxylamine	NH ₂ OH		Nitrogen Monoxide			Hydrazine	N ₂ H ₄	
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Day 3	Electrochemical Cells	https://www.youtube.com/watch?v=3PAUinSdMa0 https://www.youtube.com/watch?v=dVGuHgbvN-Y	<p>Q1. Compare Voltaic, galvanic cell and Electrolytic Cell.</p> <p>Q2. Answer the following questions from the diagram given below:</p>  <ol style="list-style-type: none"> 1) What is the difference between an electrolytic cell and a voltaic cell? 2) Where does oxidation reaction take place in a voltaic cell? 3) Where does the reduction reaction take place? 4) List some examples of voltaic cells that are of commercial importance. <p>Critical Thinking:</p> <ol style="list-style-type: none"> a) What does a voltaic cell do? b) Why the two electrodes are physically separated? c) What is the purpose of the porous membrane? 																																																																					

Week-6:

Day	Topic	Video Links	Task
Day 1	Solubility	https://www.youtube.com/watch?v=TI5s6q6aWIU https://www.youtube.com/watch?v=p5NUUDOrC2A https://www.youtube.com/watch?v=6ro--Ehc1i4	<p style="text-align: center;">Solubility Worksheet</p> <p>Solubility Terms: Directions: Fill in the blank with the most appropriate term for the definition given.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Word Bank: Chemical Change, Compound, Electrolyte, Element, Heterogeneous, Homogenous, Matter, Mixture, Physical Change, Precipitate, Soluble, Solute, Solution, Solvent, Supersaturated</p> </div> <ol style="list-style-type: none"> _____ Able to dissolve to a certain extent, usually in reference to water. _____ A homogenous mixture of two substances. _____ Changes that alter the composition of matter. _____ Changes that alter only the state or appearance of a substance, but not the composition. _____ The minor (lesser) component in a solution. _____ A pure substance composed of 2 or more elements in a fixed ratio. _____ A solid, insoluble ionic compound that forms in and separates from a solution. _____ The major (greater) component in a solution. _____ The soluble ionic compound that remains in solution. _____ A mixture that has the same composition throughout. _____ A pure substance that cannot be broken down into simpler substances. _____ Anything that occupies space and has mass. _____ A substance composed of 2 or more components in proportions that vary. _____ A mixture where the composition varies from one region to another. _____ A substance that dissolves readily in water (e.g., alkali metal compounds) to form solutions that conduct electricity.
Day 2	Elements, Compounds & Mixtures	https://www.youtube.com/watch?v=Cf0iWPCuz-U https://www.youtube.com/watch?v=iXWbL_EAvJQ https://www.youtube.com/watch?v=kKxhCtpbBDM	Revision
Day 3	Solutions, Colloids &	https://www.youtube.com/watch?v=hQdycfLOt24&feature=emb_title	<p>Q. Answer the following questions:</p> <ol style="list-style-type: none"> What are the three different types of mixtures? In what type of mixture is it easiest to separate the component substance? Why?

<p>mixture s</p>		<p>iii) Given an unknown mixture consisting of two substances, explain how a scientist could use lab techniques to determine whether the mixture is a true solution, a colloid, or a suspension.</p> <p>Q. Write the letter of the definition that best matches each term.</p> <p>Definitions:</p> <ol style="list-style-type: none"> capable of being dissolved solution with water as the solvent substance that is dissolved in a solution substance that dissolves in water to form a solution that conducts an electric current solid solution containing two or more metals homogeneous mixture of two or more substances in a single physical state substance that does the dissolving in a solution <p>Terms: solution , solute solvent soluble alloy aqueous solution electrolyte</p>
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Week-7:

Day	Topic	Video Links	Task
Day 1	Metals and Non metals	<p>https://www.youtube.com/watch?v=FCLy8iCpLow</p> <p>https://www.youtube.com/watch?v=npqcJqi7tbo</p>	<p style="text-align: center;">Metals, Nonmetals, and Metalloids</p> 

Q. Identify each element as metal, non-metal or metalloid from the above periodic table.

Copper	
Oxygen	
Boron	
Potassium	
Silicon	
Helium	
Aluminum	
Hydrogen	
Calcium	
Polonium	

Q. List four physical properties of metals, non-metals or metalloids.

Metals	Nonmetals	Metalloids

Day
2

**Chemical
Reactivity**

<https://www.youtube.com/watch?v=LuZivBq8cZA>

https://www.youtube.com/watch?v=ICBc_B3sUQ8

Q. Write the chemical reactivity of metals and halogens in ascending order.

Reaction of Metals with Oxides:

Q. Fill in the blanks with appropriate products:

Metal Oxide + Acid \longrightarrow Salt + Water

For example,

Copper Oxide + Sulfuric Acid \longrightarrow Copper Sulfate + Water

1. Magnesium Oxide + Nitric Acid \longrightarrow _____ + _____

2. Silver Oxide + Hydrochloric Acid \longrightarrow _____ + _____

3. Lead Oxide + Sulfuric Acid \longrightarrow _____ + _____

4. Copper Oxide + Nitric Acid \longrightarrow _____ + _____

5. $\text{SnO} + \text{H}_2\text{SO}_4 \longrightarrow$ _____ + H_2O

6. $\text{CuO} +$ _____ \longrightarrow $\text{CuCl}_2 + \text{H}_2\text{O}$

7. $\text{CaO} + 2\text{HNO}_3 \longrightarrow$ _____ + H_2O



**Day
3** **Nobel
gases**

<https://www.youtube.com/watch?v=mLiyirUJ1Zg>

<https://www.youtube.com/watch?v=TAvSrEmM3KM>

The Noble Gases

Q. Use the internet to research the properties and uses of the noble gases in group 0 to complete the following table.

Noble gas	Melting Point	Uses
Helium		
Argon		
Krypton		
Xenon		
Neon		
Radon		

Q. Word Search:

```

L G R F Z O H S N G L B L N C V P
E S E S A G E L B O N O W J G D U
S N T K N K U N N F L E Q F E N E
C I R B C N E R R O R Q P U O M B
X E N B S F U M W U D T M E I O F
H L G E A R G O N Q E A N S Z N S
E E F S R Z G Z K N Q E R Q W A M
V M B N K T E L E C T R O N S T F
I E Z O W H L E I G H T E E N O N
T N U Y Y R E S P U Z H D H V M K
C T R L Z G S L S U R X O M A I A
A S F H K M Z T I W Q E H T J C G
E P J N F B A M K U G N E O X M V
R Z P S N B O H H V M O U E X B J
N O L O L Q B T E X X N D X Z B S
O N O E J Y M A R N O T P Y R K P
N J G U H I X V O D J Z I K R L B

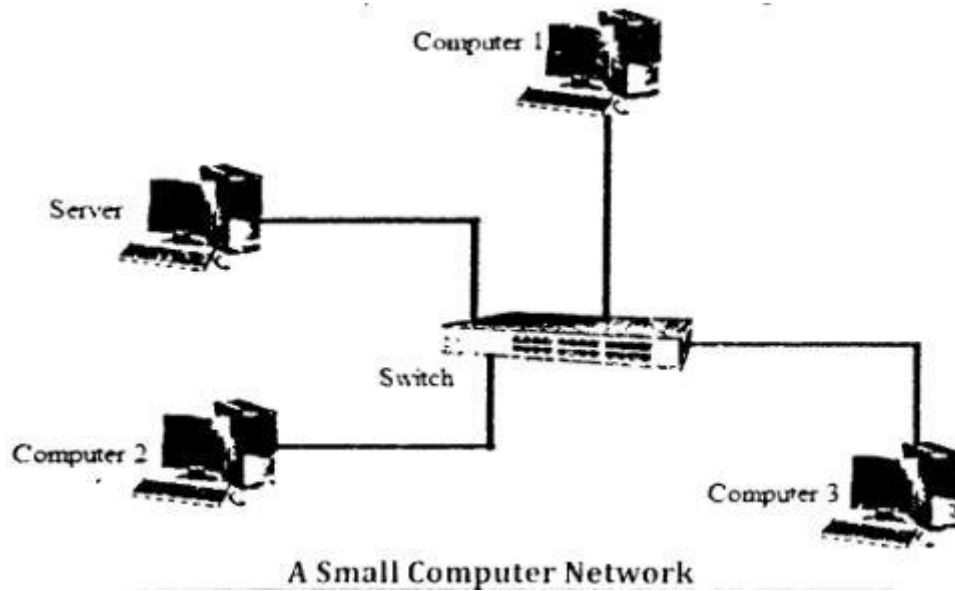
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Argon Eighteen Electrons Elements Helium Inert Krypton
Monatomic Neon Noble Gases Nonreactive Radon Stable Xenon

Computer Science

Week 1 Day 1

Q- Get the Concept from following diagram and Define Computer Network



- Video Link: [What is Computer Network](#)

Week 1 Day 2

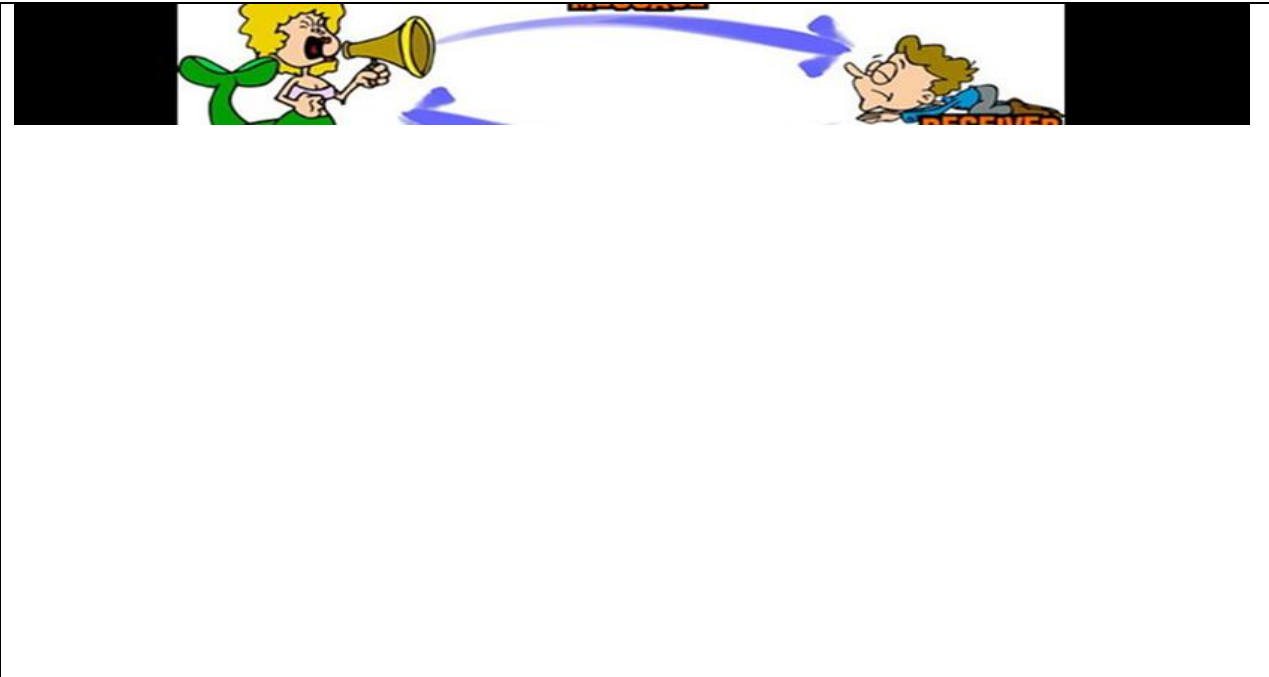
Q. Draw Diagram of any school network. Video Link: [What is Computer Network?](#)

Diagram:

(School Network)

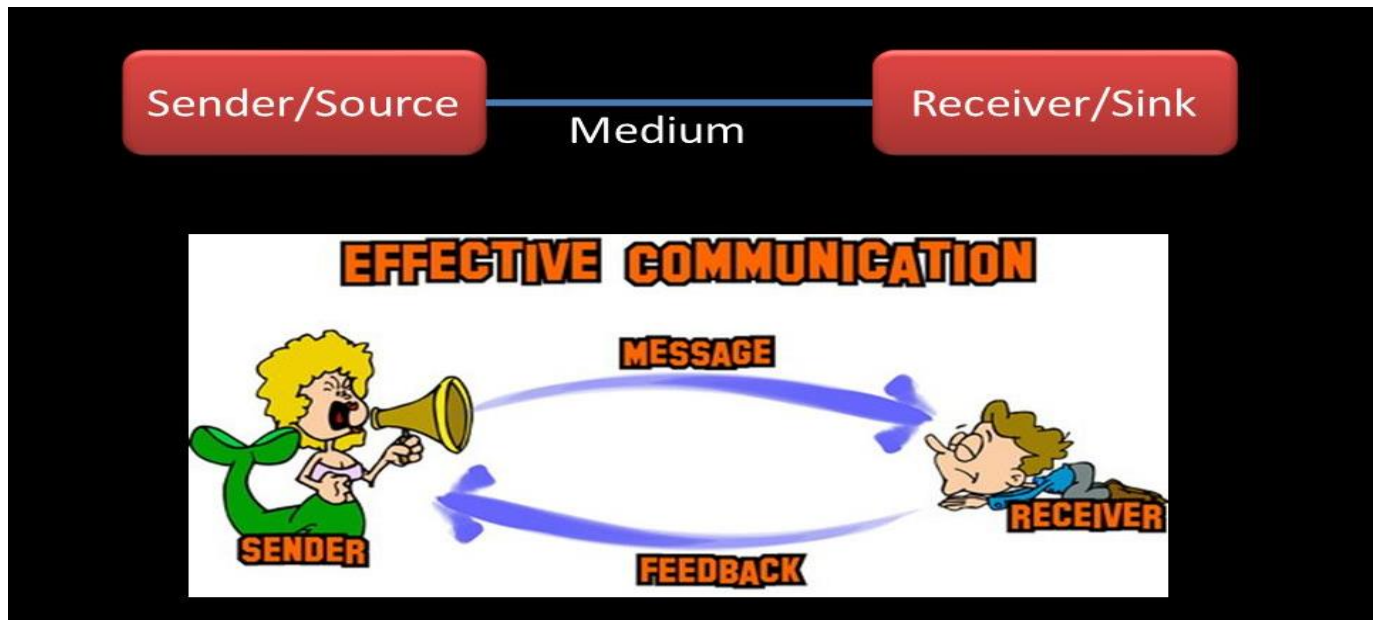
Week 1 Day 3

Q1- Draw block diagram of data Communication Video Link: [What is Computer Network](#)



Week 2 Day 1

Q1- Explain the Parts of data Communication

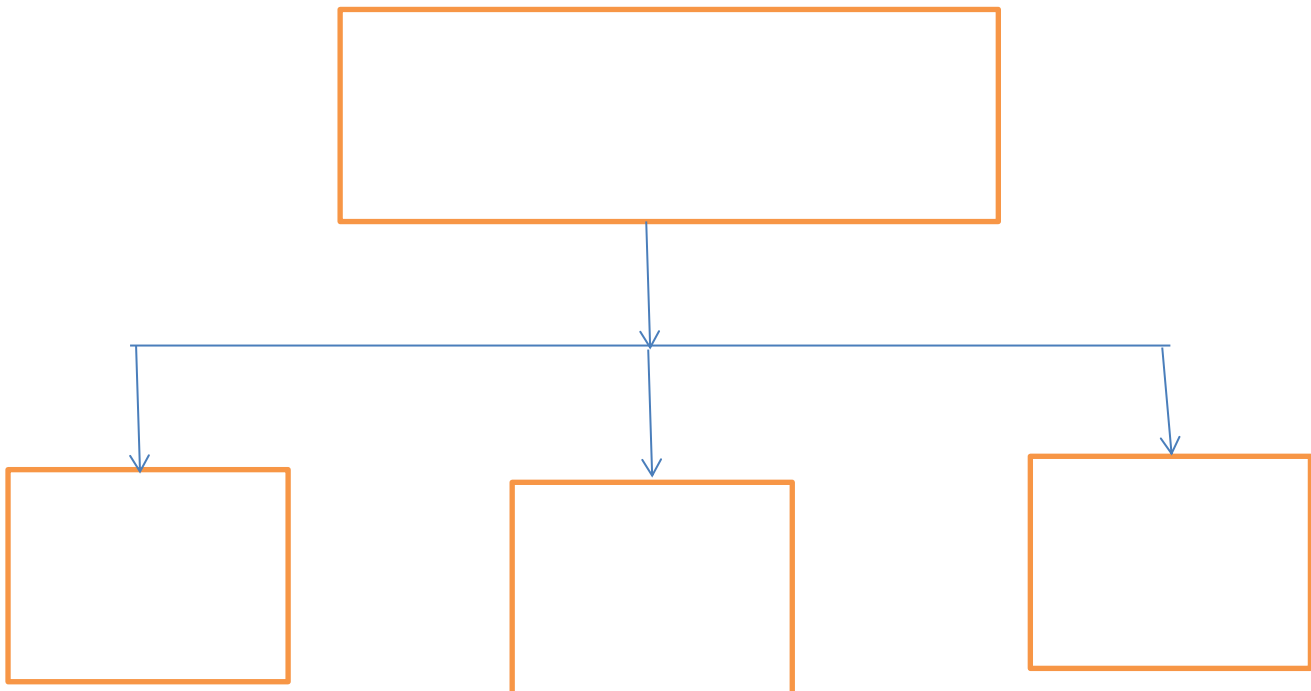


- Video Link: [What is Computer Network?](#)

1	Sender	
2	Message/Data	
3	Protocol	
4	Medium	
5	Receiver	

Week 2 Day 2

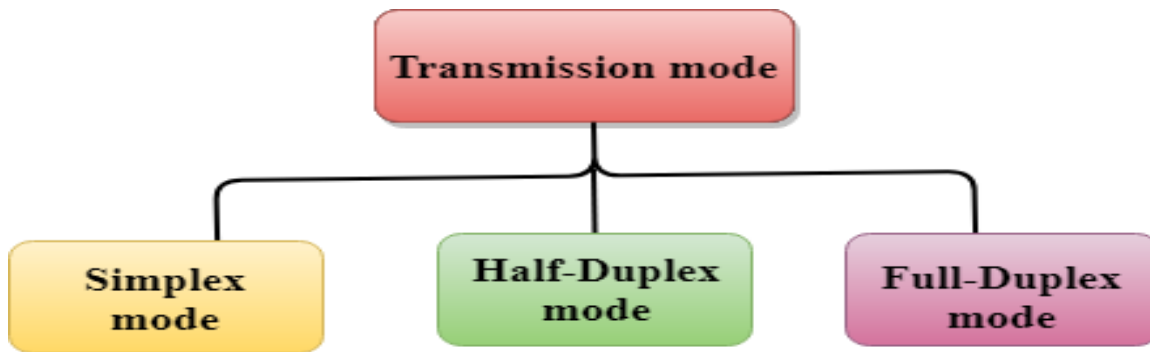
Q1. What are the Modes of Data Transmissions?



Video Link: [Transmission modes of Computer Network](#)

Week 2 Day 3

Q1. Define the Modes of Data Transmissions?



M#	Mode's name	
1		
2		
3		

Video Link: [Transmission modes of Computer Network](#)

Week 3 Day 1

Q1. What is Network Architecture? How many Types of Network Architecture

Definition:

Types:

1-

2-

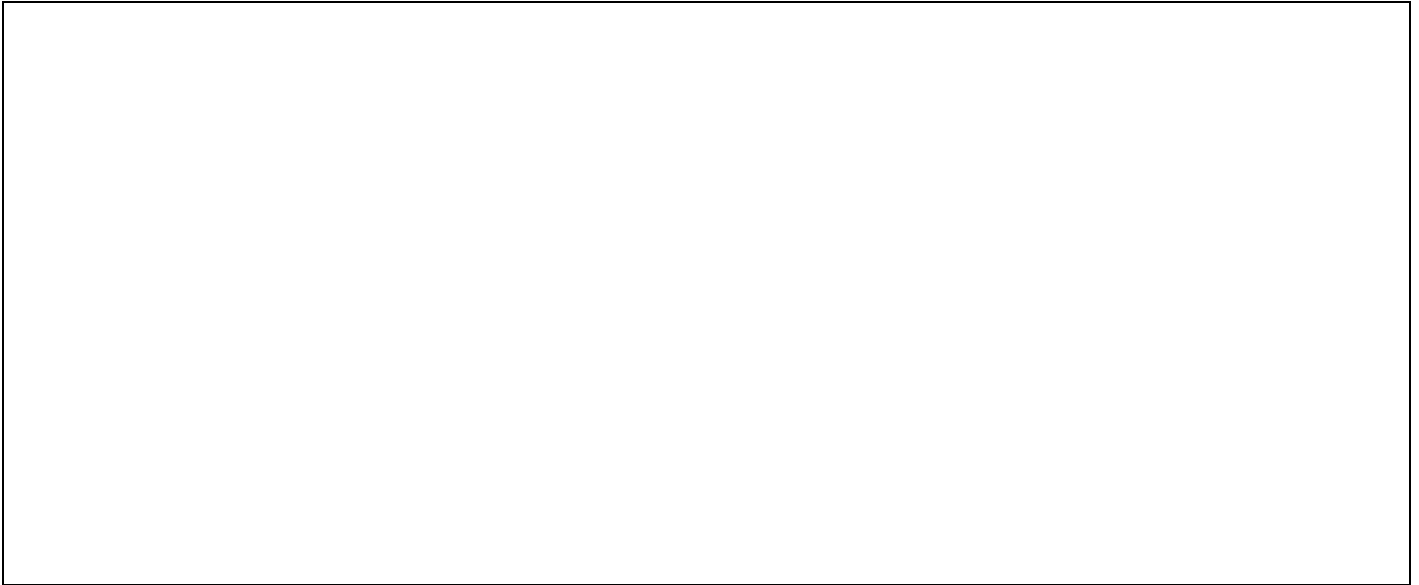
3-

- Video links: [Client Server Network](#), [Peer to Peer to Network](#), [Point to Point Network](#)

Week 3 Day 2

Q-1 Draw the Diagram of Point To Point Network

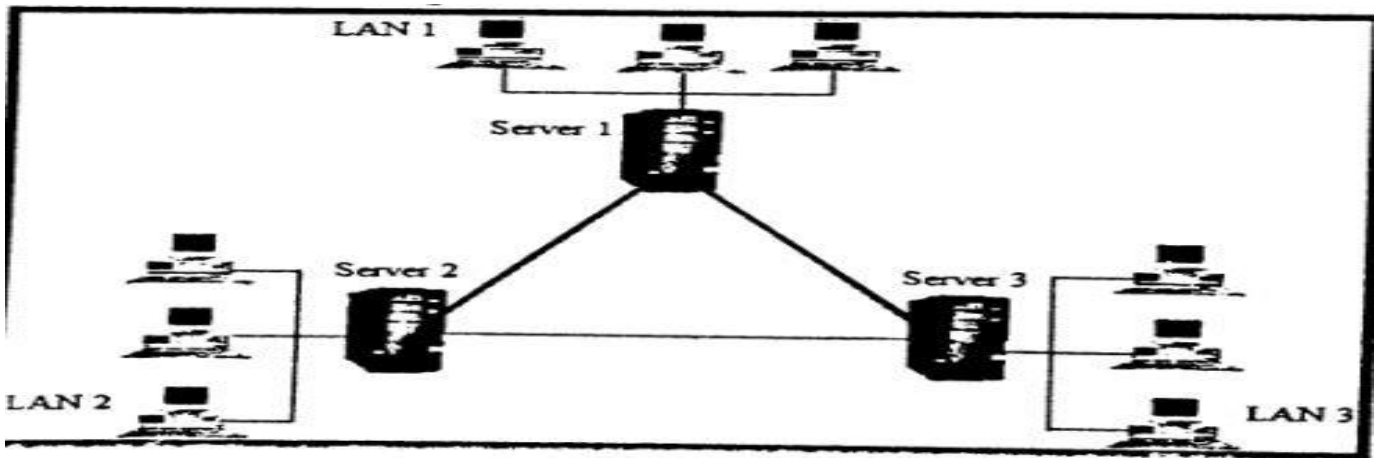
Video links: [Point to Point Network](#)



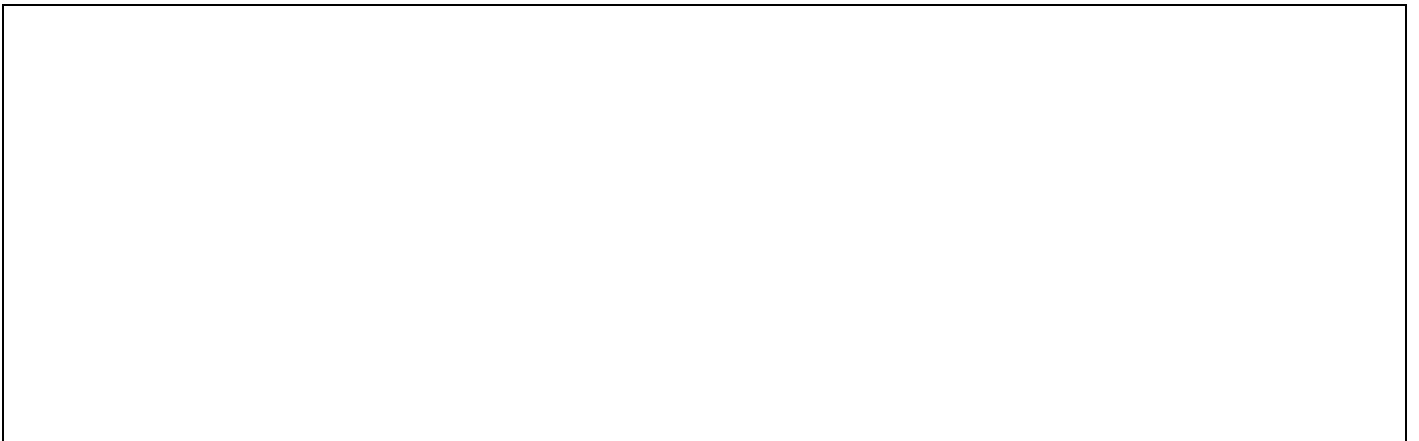
Week 3 Day 3

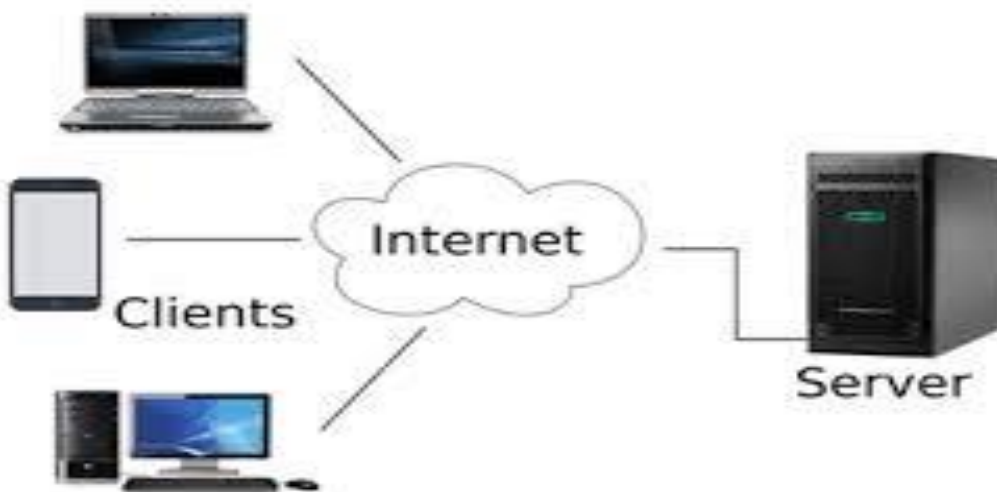
Q-1 Define of Point To Point Network

Video links: [Point to Point Network](#)



Point to Point network:



Week 4 Day 1**Q1. Draw the structure of Client/Server Networks**Video link: [Client Server Network](#)**Week 4 Day 2****Q1. Define client/Server Networks**

Client/Server network:

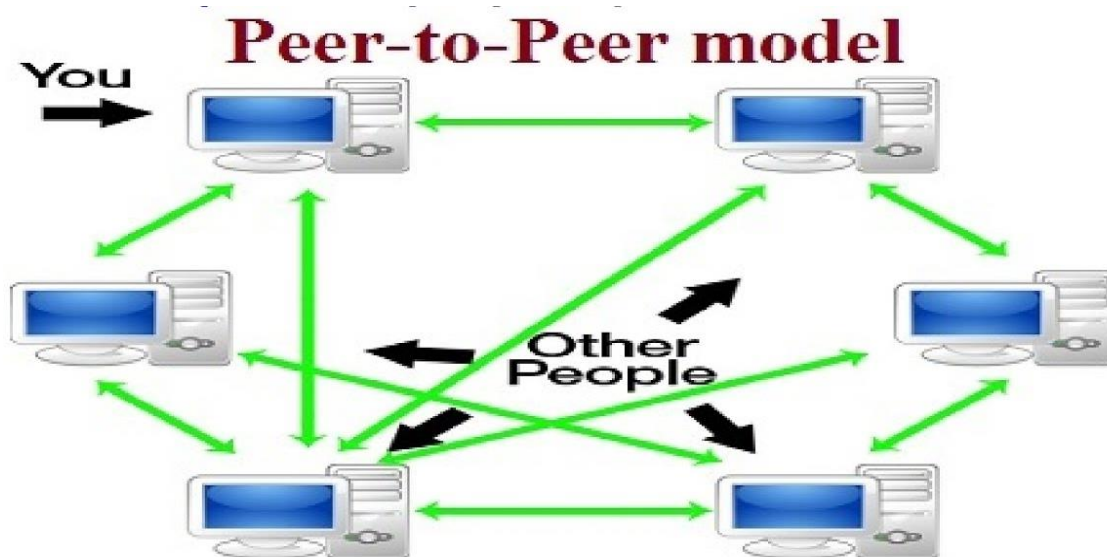
Video link: [Client Server Network](#)

Week 4 Day 3

Q1-Draw the Diagram of Peer to peer network:

Video link: [Peer to Peer to Network](#)**Week 5 Day 1**

Q1. Define peer to peer network:



Peer to peer network:

Video link: [Peer to Peer to Network](#)

Week 5 Day 2

Q1. What is Telephone Network? Also write down types of Communication Lines

Ans:

Telephone Network:

Types of communication lines:

i-

ii-

iii-

iv-

Video links: [Dial-Up Line](#) , [DSL](#) , [ISDNCDMA technology](#)

Week 5 Day 3

Q1. Define Communication Lines.

Ans:

S#	Communication Lines	
1		
2		
3		
4		

Video link: [Dial-Up Line](#) , [DSL](#) , [ISDN](#) , [CDMA technology](#)

Week 6 Day 1

Q1. Draw diagram of Communication Lines.

Ans:

S#	Communication Lines	Diagram
1		
2		
3		
4		

Video link: [Comparison between Data Communication Lines](#)

Week 6 Day 2

Q1 Explain Different types of modem

S#	Types	
1	DSL Modem	
2	Dial Up Modem	

3	ISDN Modem	
---	------------	--

Video link

- [Dial-Up Line](#)
- [DSL](#)
- [ISDN](#)

Week 6 Day 3

Q1 Draw the diagram of modem

S#	Types	Diagram
1	DSL Modem	
2	Dial Up Modem	
3	ISDN Modem	

Video link

- [Dial-Up Line](#)
- [DSL](#)
- [ISDN](#)

Week 7 Day 1

Q1. Select the best answer for the following MCQs.

i. In which of the following transmission mode, information is transmitted in both directions but not simultaneously?

- | | |
|---------------------|---------------------|
| A. Simplex mode | B. Half-duplex mode |
| C. Full-duplex mode | D. High speed mode |

ii. In which of the following network, every computer can act as client, server or both at the same time?

- | | |
|---------------------------|-------------------------|
| A. Client/server network | B. Peer-to-peer network |
| B. Point-to-Point network | D. Local area network |

iii. Which of the following network provides centralized security?

- | | |
|---------------------------|-----------------------|
| A. Client/server network | B. Peer-to-peer |
| C. Point-to-Point network | D. Local area network |

iv. Which of the following computer shares resources on a network for others to use?

- | | |
|---------------------|------------------|
| A. Desktop computer | B. Client |
| C. Server | D. Microcomputer |

v. Which of the following topology is most expensive to implement?

- | | |
|---------|---------|
| A. Star | B. Bus |
| C. Ring | D. Mesh |

vi. In which of the following network topology, switch is required?

- | | |
|---------|---------|
| A. Star | B. Bus |
| C. Ring | D. Mesh |

vii. Which of the following network is used to provide Cable TV and Internet services?

- | | |
|------------------------------|---------------------------|
| A. Local area network | B. Wide area network |
| C. Metropolitan area network | D. Point-to-Point network |

Week 7 Day 2

Q1. Select the Correct answer

vii. Which of the following network is used to provide Cable TV and Internet services?

- | | |
|------------------------------|---------------------------|
| A. Local area network | B. Wide area network |
| C. Metropolitan area network | D. Point-to-Point network |

viii. Which of the following provides high speed Internet connection?

- | | |
|-----------------------|--------------------|
| A. Dial-up connection | B. DSL connection |
| C. ISDN connection | D. CDMA connection |

ix. Which of the following network connects computers across cities, countries and continents?

- | | |
|------------------------------|--------------------------|
| A. Local area network | B. Wide area network |
| C. Metropolitan area network | D. Client/Server network |

- x. Which of the following network topology uses a device called terminator?
- | | |
|------------------|------------------|
| A. Ring topology | B. Mesh topology |
| C. Bus topology | D. Star topology |

Week 7 Day 3

Q1. Choose correct answer:

xi. Computer Network is

- | | |
|--|---------------------|
| A. Collection of hardware components and computers | D. All of the Above |
| B. Interconnected by communication channels | |
| C. Sharing of resources and information | |

xii. Two devices are in network if

- A. a process in one device is able to exchange information with a process in another device
- B. a process is running on both devices
- C. PIDs of the processes running of different devices are same
- D. none of the mentioned

xiii. Which data communication method is used to transmit the data over a serial communication link?

- | | |
|----------------|-----------------|
| A. Simplex | B. Half-duplex |
| C. Full duplex | D. All of above |

xiv. Which of the following is not the possible ways of data exchange?

- | | | | |
|------------|--------------|----------------|----------------|
| A. Simplex | B. Multiplex | C. Half-duplex | D. Full-duplex |
|------------|--------------|----------------|----------------|

BIOLOGY

■ Week:-1

Topic/s: Pg# 87-91	5.0. Introduction 5.1: Cell Cycle 5.2: Mitosis 5.2.1: Phases of Mitosis
Textbook Reading:	<ul style="list-style-type: none"> • Read Introduction given on pg no.87, It gives an insight on the phenomena of cell cycle in living organisms and its importance. This link can help in better understanding of this concept:- https://youtu.be/ch1MfHlhdS0 https://www.khanacademy.org/test-prep/mcat/cells/cellular-division/v/cell-cycle-phases • Read cell cycle and it's phases on pg 87-88. It outlines different phases of Eukaryotic Cell Cycle. This link can help in better understanding of this concept:- https://youtu.be/ch1MfHlhdS0 • Read Mitosis and it's phases on pg 89-91. It explains in detail the Process of Mitosis and it's phases A. Karyokinesis And Cytokinesis in detail with the help of diagrams on pg # 91. This link can help in better understanding of this concept:- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.2&v=b-cell-cycle-9
Written Work	<ul style="list-style-type: none"> • Solve the provided work sheets. Also practice sketching neat labelled diagrams included in above mentioned topics on pg 88 & 91 (T. Bk)

DAILY WORKSHEETS

• Day: 1 Cell Cycle:-

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • What is difference between G1&G2 phase of Cell Cycle? • Define the following <ol style="list-style-type: none"> a. Cell Cycle b. Interphase c. Mitotic please
------------------------------------	---

Diagram/s:

Notes/ Self
assessment/
Daily link :-

Follow these links to develop better concept through precise notes and practice tests:-
 -<https://youtu.be/ch1MfHlHds0>
<https://www.khanacademy.org/test-prep/mcat/cells/cellular-division/v/cell-cycle-phases>

Written Work

- Answer the provided additional short questions and practice diagram with labelling from pg # 88 (Text Book)

▪ **Day: 2& 3 Mitosis (Pg# 89-91)**

Link: <https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.2&v=b-cell-cycle-9>

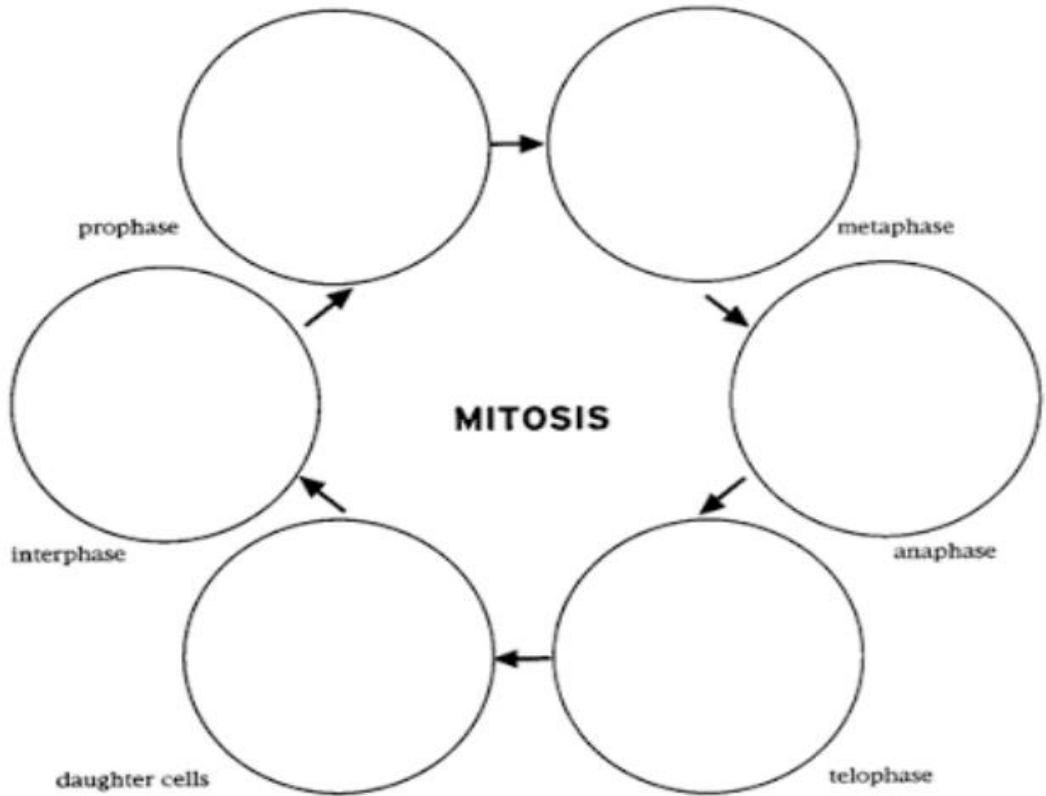
ADDITIONAL
SHORT-
QUESTIONS:

- Answer the given short questions.
- How is cytokinesis different in plant cells as compared to animal cells?
- Define the difference between somatic cells and germ line cells?
- Define the following
 - a. Spindle fibres
 - b. Chromosome
 - c. Mitotic spindle
 - d. Spindle plate

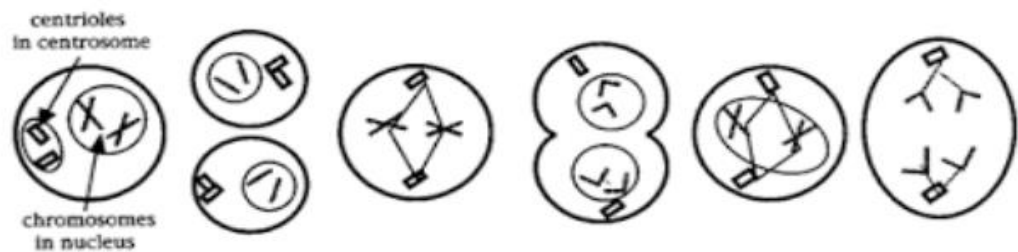
Web Organizer:-

Observations & Analysis

1. Examine the diagrams representing different phases of mitosis.
2. Redraw the diagrams in their correct sequence.



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■ Week: 2

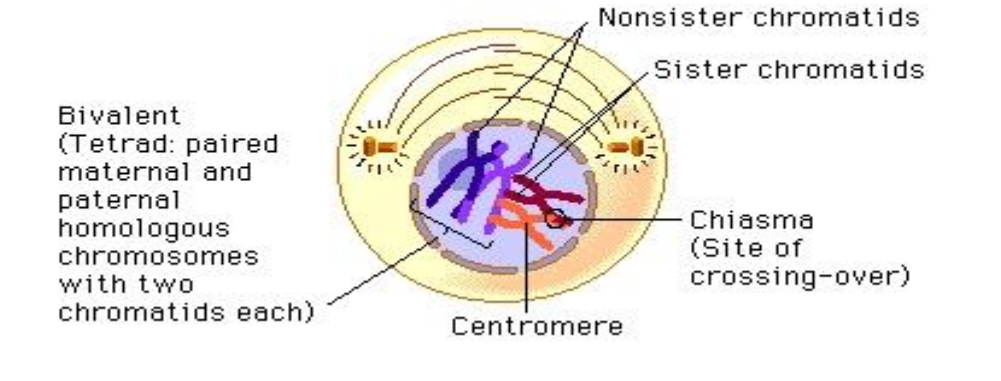
Topics: Pg # 92-97	5.2.2: Significance of Mitosis 5.3.: Meiosis 5.3.1: Phases of Meiosis-I(Prophase-I)
Textbook Reading:	<ul style="list-style-type: none"> • Read Significance of Mitosis given on pg # 92-93, It gives a detailed account of importance of Mitosis in the lives of living organisms. https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.2&v=b-cell-cycle-12 Read process of Meiosis-I and Prophase-I in detail, go through the diagram given on pg # 96. These links can help in better understanding of this concept:- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3&v=b-cell-cycle-17 https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/phases-of-meiosis-i
Written Work	<ul style="list-style-type: none"> • Solve the work sheets provided, Also practice sketching neat labelled diagrams included in above mentioned topics on pg # 96.

DAILY WORKSHEETS

▪ Day : 1 Significance of Mitosis:-

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • Define the term Regeneration with examples. • Define the following <ol style="list-style-type: none"> Tumors Types of Tumor Metastasis
Notes/ Self assessment/ Daily link :-	<p>Follow these links to develop better concept through precise notes and practice tests:-</p> <p>https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.2&v=b-cell-cycle-12</p>
Written Work	<ul style="list-style-type: none"> • Write answers of the provided additional short questions. • practice diagrams with labelling on pg # 96. • Write in detail the Process of Prophase-I.

•Day:- 2 &3 Meiosis-I (Prophase-I):-

<p>ADDITIONAL SHORT-QUESTIONS:</p>	<ul style="list-style-type: none"> • Who discovered the process of Meiosis? • Define the following terms <ol style="list-style-type: none"> a. Synapsis b. Bivalent c. Tetrad d. Chiasmata e. Crossing over
<p>Diagrams:</p>	
<p>Notes/ Self assessment/ Daily link :-</p>	<p>Follow these links to develop better concept through precise notes and practice https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/phases-of-meiosis-i</p>
<p>Written Work</p>	<ul style="list-style-type: none"> • Write answers of the provided additional short questions. • practice diagrams with labelling on pg # 96. • Write in detail the Process of Prophase

■ Week: 3

<p>Topic/s:</p>	<p>5.3.1: Prophase-I (Recap) Metaphase-I Anaphase-I Telophase-I 5.3.1: Meiosis-II</p>
<p>Textbook Reading:</p>	<ul style="list-style-type: none"> • Revise the process of Meiosis-I (Prophase-I) and read the rest of the phases of Meiosis-I. Pg# 96-98 explains in detail all the events that took place during the process of Meiosis-I. This link can help in further to clear the concepts:- https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/phases-of-meiosis-i https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3&v=b-cell-cycle-17

	<ul style="list-style-type: none"> • Read Meiosis-II from pg # 99-100. The following topic elaborates the processes or phenomena of Meiosis-II in detail. This link can further help to clear all the concepts regarding the topic:- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3&v=b-cell-cycle-20
Written Work	<ul style="list-style-type: none"> • Solve work sheets provided, Also practice sketching neat labelled diagrams included in above mentioned topics on pg # 98 & 99.

DAILY WORKSHEETS

Day:- 1 Meiosis-I:-

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • Define the term Interphase-II or Interkinesis. • Who observed the phenomenon of crossing over in fruit fly? • Why Prophase-II took much less time as compared to Prophase-I?
Diagram:-	<p>MEIOSIS I</p> <p>Prophase I Synapsis and crossing over occur. Tetrad (paired homologous chromosomes with two chromatids each)</p> <p>Metaphase I Tetrads line up on the metaphase plate.</p> <p>Anaphase I Homologous pairs separate.</p> <p>Telophase I</p> <p>Cytokinesis I</p> <p>To Prophase II</p> <p>MEIOSIS II</p> <p>Prophase II</p> <p>Metaphase II Chromosomes line up on the metaphase plate.</p> <p>Anaphase II Sister chromatids separate.</p> <p>Telophase II</p> <p>Cytokinesis II 4 haploid daughter cells are formed, each having only one chromosome of each homologous pair.</p>

Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through video tutorials, precise notes and practice tests:- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3&v=b-cell-cycle-17 https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/phases-of-meiosis-i
Written Work	<ul style="list-style-type: none"> • Write down the process of Meiosis-II in detail. • Answer the provided additional short questions.

Day:-2 &3 Meiosis-I and Meiosis-II:-

Link:- <https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3&v=b-cell-cycle-20>

- **Draw a labelled diagram showing the process of Meiosis-I and Meiosis-II.**

■ Week: 4

Topic/s:	5.3.2: Significance of Meiosis 5.3.3: Comparison between Mitosis and Meiosis 5.4. : Apoptosis and Necrosis
Textbook Reading:	<ul style="list-style-type: none"> • Read <i>Significance of Meiosis</i> and <i>Comparison between Mitosis and Meiosis</i> given on page 100-101. It describes the importance of Meiosis for reproduction and inheritance, it further explains the comparison between Mitosis and Meiosis. This link explains the concept in an enlightening manner:- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3-2012&v=b-cell-cycle-21 • Read <i>Apoptosis and Necrosis</i> from pg 102-103. It provides a deep insight on the two phenomenon of cell death. This link explains it very well:- https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/comparing-mitosis-and-meiosis • Read <i>Apoptosis and Necrosis</i> from pg 102-103. It provides a deep insight on the two phenomenon of cell death. This link explains it very well:- https://sabaq.pk/video-page.php?sid=federal-biology-9th-5.7&v=b-cell-cycle-24a
Written Work	<ul style="list-style-type: none"> • Solve the work sheets provided, Also practice sketching neat labelled diagrams included in above mentioned topics on pg 101.

DAILY WORKSHEET

•Day: 1 Significance of Meiosis:-

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • Who describe the significance of Meiosis. • What is the difference between disjunction and non-disjunction. • How can you say that Meiosis is essential for sexual reproduction?
Written Work	<ul style="list-style-type: none"> • Describe the significance of Meiosis in detail. • write answers of the additional short questions. Link :- https://sabaq.pk/video-page.php?sid=punjab-biology-9th-5.3-2012&v=b-cell-cycle-21

Day:- 2

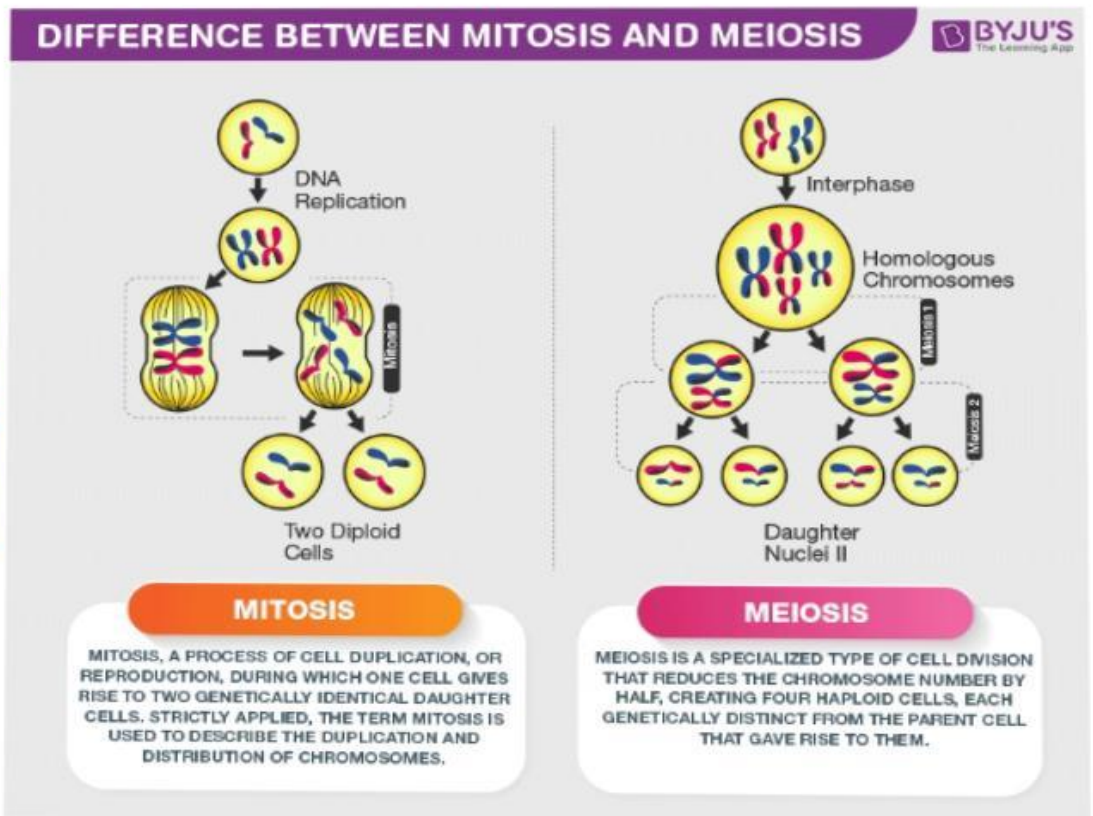
▪ **Comparison between Mitosis and Meiosis :-**

Web Organizer/ flowsheets/ key points with Diagrams :-

MITOSIS VS. MEIOSIS VENN DIAGRAM



Difference Between Mitosis and Meiosis



Difference Between Mitosis And Meiosis

Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes and practice tests:- https://www.khanacademy.org/science/high-school-biology/hs-reproduction-and-cell-division/hs-meiosis/v/comparing-mitosis-and-meiosis
Written Work	• Compare and contrast the process of Mitosis and Meiosis,. Also practice sketching neat labelled diagrams included in above mentioned topics on pg # 101

▪Day:-3 Apoptosis and Necrosis

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • Define the following terms <ol style="list-style-type: none"> a. Apoptosis b. Blebs c. Apoptotic bodies d. Necrosis
Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes, video tutorials and practice tests:- https://sabaq.pk/video-page.php?sid=federal-biology-9th-5.7&v=b-cell-cycle-24a
Written Work	<ul style="list-style-type: none"> • Describe the process of Apoptosis and Necrosis. • Answer the provided additional short questions.

■ Week:- 5

Topic/s: Pg # 104-105	<ul style="list-style-type: none"> •Review Questions Multiple choice Understanding the concepts Short questions
Textbook Reading:	<ul style="list-style-type: none"> • Read <i>Multiple choice questions , understanding the concepts and short questions given</i> on page 104-105. Try to comprehend the previous concepts and find out the answers of the review exercise. This link explains the concept in an enlightening manner:- <p>https://youtu.be/MlkJ7Ny-aX8</p>
Written Work	<p>Answer the given review questions. Pg # 104-105.</p> <p>Day 1: Multiple choice</p> <p>Day 2: Understanding the concepts</p> <p>Day 3:Short Questions</p>

■ Week:6

Topics: Pg # 107-109	<p>6.0: Introduction</p> <p>6.1: Characteristics of Enzymes</p>
Textbook Reading:	<ul style="list-style-type: none"> •Read <i>Introduction</i> given on page 107. It describes and highlights the importance of Enzymes in living organisms. <p>Link:-</p> <p>https://youtu.be/UoT92UtHSY4</p> <ul style="list-style-type: none"> • Read <i>characteristics of Enzymes</i> given on pg # 108-109. It explains different characteristics of Enzymes. •Following link can help in better understanding of concepts <p>https://youtu.be/1o7JUR7OteU</p> <p>https://youtu.be/mw7aDRBmDRU</p>
Written Work	<ul style="list-style-type: none"> • Solve the given work sheets and practice sketching neat labelled diagrams included in above mentioned topics on pg 108.

DAILY WORKSHEETS**Day:-1 Introduction:-**

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • Define the term metabolism with examples. • What is the difference between anabolism and catabolism. • What is meant by Activation Energy? • How enzymes lower the activation energy?
Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes and practice tests:- https://youtu.be/UoT92UtHSY
Written Work	• Solve the additional short questions provided and practice figure# 6.1 given on pg # 108.

Day:- 2 & 3 Characteristics and uses of Enzymes :-

ADDITIONAL SHORT-QUESTIONS:	What is the difference between prosthetic group and coenzymes? <ul style="list-style-type: none"> • What are the different uses of Enzymes in our daily lives? • Define Active sites, Cofactors, Metabolic pathways
Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes and practice tests: https://youtu.be/1o7JUR7OteU https://youtu.be/mw7aDRBmDRU
Written Work	<ul style="list-style-type: none"> • How would you define Enzymes? Describe their characteristics. • Write uses of Enzymes in our daily lives. • Give the answers of the provided additional short questions.

Week:- 7

Topics: Pg # 109-113	6.1.1: Factors affecting the rate of Enzyme action. 6.2. : Mechanism of Enzyme Action 6.3. : Specificity of Enzymes
Textbook Reading:	<ul style="list-style-type: none"> • Read Factors Affecting the rate of Enzyme Action, Mechanism of Enzyme Action and Specificity of Enzymes given on page 109-113. It describes in detail the major factors affecting the rate of Enzyme action, Lock and key model of Enzyme action and the specificity of Enzyme due to the geometric shape of active sites. <p>This link explains the concept in an enlightening manner:- https://sabaq.pk/video-page.php?sid=federal-biology-9th-6.4&v=b-enzymes-11 https://sabaq.pk/video-page.php?sid=kpk-biology-9th-6.4&v=b-enzymes-6 https://youtu.be/mmv3ACkLMNo , https://youtu.be/-ZRDgBfetGw</p>

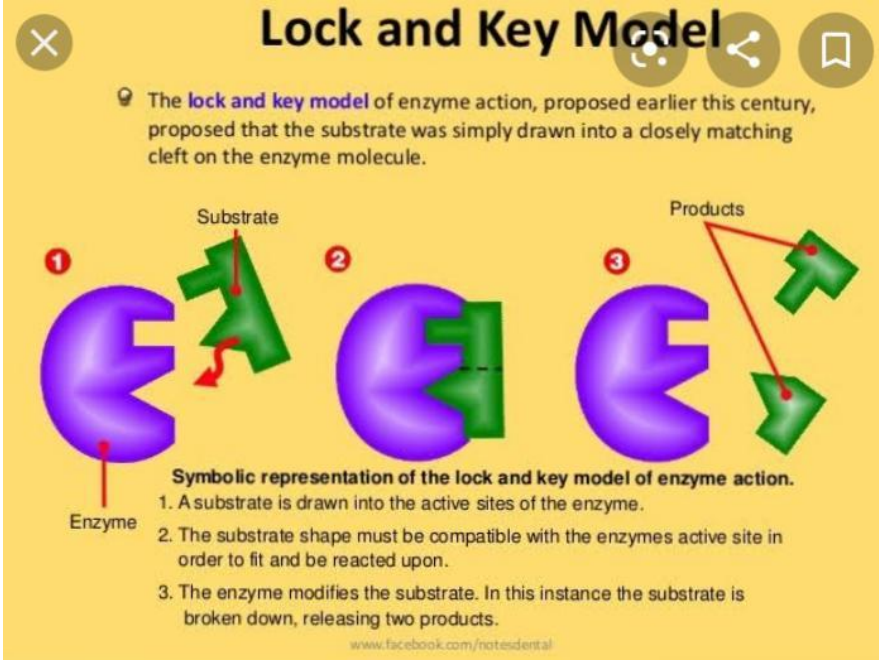
	<p><u>and</u></p> <p>https://youtu.be/5jzsQ4tiOy8</p>
Written Work	<ul style="list-style-type: none"> • Solve the given work sheets and practice sketching neat labelled diagrams included in above mentioned topics on pg # 110-113.

DAILY WORKSHEETS

Day: 1 Factors affecting the rate of Enzyme action:-

ADDITIONAL SHORT-QUESTIONS:	<ul style="list-style-type: none"> • What do you mean by optimum temperature? • Define the denaturation of Enzymes. • How PH affects the rate of enzymatic action? • Define the state of saturation in enzymatic action.
Notes/ Self assessment/ Daily link :-	<p>Follow these links to develop better concept through precise notes and practice tests:-</p> <p>https://sabaq.pk/video-page.php?sid=federal-biology-9th-6.4&v=b-enzymes-11</p>
Written Work	<ul style="list-style-type: none"> • Solve additional Short question provided. • Practice sketching neat labelled diagrams included in above mentioned topics on pg # 110-111

•Day :- 2 & 3 Mechanism of Enzyme Action + Specificity of Enzymes:-

<p>ADDITIONAL SHORT-QUESTIONS:</p>	<ul style="list-style-type: none"> • Define lock and key model of Enzyme action. • Why Enzymes are specific in nature? • Draw a labelled diagram showing Induced-Fit model of Enzyme action.
<p>Diagram:</p>	 <p>Lock and Key Model</p> <p>The lock and key model of enzyme action, proposed earlier this century, proposed that the substrate was simply drawn into a closely matching cleft on the enzyme molecule.</p> <p>Symbolic representation of the lock and key model of enzyme action.</p> <ol style="list-style-type: none"> 1. A substrate is drawn into the active sites of the enzyme. 2. The substrate shape must be compatible with the enzymes active site in order to fit and be reacted upon. 3. The enzyme modifies the substrate. In this instance the substrate is broken down, releasing two products. <p>www.facebook.com/notedental</p>
<p>Notes/ Self assessment/ Daily link :-</p>	<p>Follow these links to develop better concept through precise notes and practice test</p> <p>https://sabaq.pk/video-page.php?sid=kpk-biology-9th-6.4&v=b-enzymes-6</p> <p>https://youtu.be/mmv3ACkLMNo</p> <p>https://youtu.be/-ZRDgBfetGw</p> <p>https://youtu.be/5jzsQ4tiOy8</p>
<p>Written Work</p>	<ul style="list-style-type: none"> • Solve additional Short question provided. Also practice sketching neat labelled diagrams included in above mentioned topics on pg 112-113. • Solve Multiple choice questions on Text book page# 115.

Pakistan Studies

Week 01

Day 1

Chapter 02: Comparison between Cripps and Cabinet Mission Plan's Proposal

- Point out major flaws of Cripps mission identified by Muslim league?
- Explain why Muslim league accepted Cabinet mission plan instead of Cripps mission?

Chapter: 02 Interim Government 1946-47

- Discuss Secret strategies of British Government.
- Explain the rule made by British Govt in Cabinet Mission plan for the establishment of interim Government

Day 2

Pakistan Affair 01: Corona Virus

- Explain Corona Virus Covid-19 and its origin
- How this virus spreads?
- What are major precautions through which anyone can get rid of this pandemic?

Chapter: 02 "3rd June Plan 1947 and its implementation"

- Describe the holding of All Parties Conference under 3rd June 1947 plan?
- Narrate the points of 3rd June 1947 Plan

Short Question.no 10, 14 & Long Question.no 05 from textbook.

Day 3

Pakistan Values 01: "Optimism"

- Explain how optimistic approach helps you in your hard time? Give example
- Explain with example, how can anyone raise the level of positivity in current situation?

Video Links

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Monday

- <https://www.youtube.com/watch?v=MDqkDihZQzc>
- https://youtu.be/KKvUNWs_x0lw

Tuesday

- https://youtu.be/pftILDZRs_GY

Wednesday

- <https://www.youtube.com/watch?v=FC4soCjxSOQ>
- <https://youtu.be/iFoFPoVlt5Q>
- <https://www.youtube.com/watch?v=PSnSo9kYIH4>

Thursday

- <https://youtu.be/RCqJRNmR5o4>

Friday

- https://www.youtube.com/watch?v=y_hi8qX9WuA
- https://www.youtube.com/watch?v=u6oBjcWZ_PY

❖ For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usg=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 2

Day 1

Chapter: 02 “Implementation of 3rd June 1947 plan Partition and the creation of Pakistan.”

- Summarize critical viewpoint of Muslim league, Congress and British from 1940-47
- Discuss unjust distribution of Muslim majority areas.

Chapter: 02 British Colonialism in India

- During which Mughal emperor’s rule, British approached subcontinent?
- Describe the initial aim of Vasco da Gama to visit subcontinent?
- Narrate the British Colonial System in India

Q.no 09 (long) from textbook exercise

Day 2

Pakistan Affair 02: COVID-19 and Pakistan Economy

- List down major industries affected due to Covid-19
- Develop a plan through which daily wages can earn money during lockdown

Chapter: 02 Quaid e Azam role in making of Pakistan

- Narrate the standpoint of Quaid e Azam in Rowlatt Act 1919
- How did Quaid e Azam get the title of “Ambassador of Peace”

Objective exercise, Short Question.no 12, 13, 15 & Long Question.no 08 from textbook.

Day 3

Pakistan Values 02: “Truthfulness”

- Explain how truthfulness makes anyone trustworthy?
- Discuss the connection between media and truthfulness
- Explain the role that the media is playing in current situation? Give examples

Video Links

...

Monday

- <https://www.youtube.com/watch?v=vSFkiebJ3oU&t=101s>

Tuesday

- <https://www.youtube.com/watch?v=DzDwz18ng7w&t=38s>
-

Wednesday

- <https://www.youtube.com/watch?v=xCt9gP2WAoI>
-

Thursday

- <https://youtu.be/wILMzqBIAY>
- <https://www.youtube.com/watch?v=wILMzqBYIAY>

Friday

- <https://www.youtube.com/watch?v=YXFA3g40q-A>
- <https://www.youtube.com/watch?v=04hvzi-59nY>
- <https://youtu.be/w01QMxsMuv0>

❖ For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usg=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

WEEK 3

Day 1

Chapter: 03 'Land and Environment'

Location of Pakistan

- Explain how Indian Ocean is one of the biggest reason for the attraction of Pakistan
- Explain why Pakistan is important for Central Asian Countries

Review: Q.no.05 (long) & Q.no.02, 11 (Short) of textbook

Chapter: 03 Mountain ranges of Pakistan

- Explain the characteristics of highest mountain range of Pakistan, Name the highest peak also?
- Discuss why karakoram range is important for China

Review: Q.no.06 long of textbook

Day 2

Pakistan Affair 03: China-Pakistan Economic Corridor(CPEC)

- Discuss the importance of CPEC for Pakistan
- Compare the trade of China through old route and through CPEC by using map

Chapter: 03 Plateaus and Plains of Pakistan

- Explain the difference between mountains and plateaus
- Differentiate upper Indus plain and lower Indus plain by using map

Review: Short Q.no 04, 09, 13 & Long Q.no 07 from textbook.

Day 3

Pakistan Values 03: Forgiveness

- Explain why self-forgiveness is important to move on after any failure
- Discuss how forgiveness is an important source of peace of mind

Video Links

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Monday

- <https://www.youtube.com/watch?v=MODXRk49tVk>
- <https://www.youtube.com/watch?v=yOQb9t1yls8>

Tuesday

- <https://www.youtube.com/watch?v=GuUleTbix-E>
- <https://www.youtube.com/watch?v=zpu6vw8q0WA>

Wednesday

- https://www.youtube.com/watch?v=g_rVqxHQmoE
- https://www.youtube.com/watch?v=JuE_cvaFxA8

Thursday

- https://youtu.be/THu5r_R8doU

Friday

- <https://www.youtube.com/watch?v=-kfUE41-JFw>
- <https://www.youtube.com/watch?v=-aEUjlxOK-Y>

❖ For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACQFQ&url=http%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usq=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 04

Day 1

Chapter: 03 Climatic condition in Pakistan

- Discuss monsoon likely areas of Pakistan
- Identify the factors that you think can affect the climate of Pakistan

Review: Q.no15 long from textbook.

Chapter: 03 Climatic Regions of Pakistan.

- Differentiate Deserts and rainy areas of Pakistan
- Identify coldest and hottest areas of Pakistan

Review: Q.no.08 from textbook

Day 2

Pakistan Affair 04: Climate Change

- Briefly explain about the industries which are rising/declining due to climate change
- Explain the effects of climate change on environment

Chapter: 03 Effects of Climate on Human Life

- Explain the effects of climate on domestic life
- Discuss effects of climate on Small businesses

Review: Long Q.no 08 from textbook.

Day 3

Pakistan Values 04: Gratitude

- Explain how gratitude can be linked with inner satisfaction

Video Links

Monday

- <https://www.youtube.com/watch?v=VnPO0X12z9w>

- <https://www.youtube.com/watch?v=a1pkH-IHXVc>

Tuesday

- https://www.youtube.com/watch?v=H_YIJuowwAw

Wednesday

- https://www.youtube.com/watch?v=VdVguV_kb_8

- <https://www.youtube.com/watch?v=s-a3OPLZC7M>

Thursday

- https://www.youtube.com/watch?v=CXqZK-E_a_A

Friday

- https://www.youtube.com/watch?v=U5IZBjWDR_c

❖ For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUCAKHRCsDXcQjBAwBnoECACQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usq=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 05

Day 1

Chapter: 03 Glaciers of Pakistan

- Identify location of major glaciers of Pakistan by using map.

Review: Q.no 06 short of Textbook

Chapter: 03 Drainage System(River System)

- Explain why Pakistan faces huge floods every year

Review: Q.no 10 (long) from textbook

Day 2

Pakistan Affair 05: Water Crisis of Pakistan

Activity: Develop a plan through which Pakistan can raise its water reserves

Chapter: 03 Vegetation (Forest) & its importance

- Discuss importance of forests of Pakistan
- Now a days, several organizations are contributing there part in "Go Green" campaign. Explain with examples

Review: Q.no.1, 13 (short) Q.no 12(long) from textbook.

Day 3

Pakistan Values 05: "Faith"

- Discuss how faith is an important factor for achievement of any goal. Support your answer with examples

Video Links

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Monday

- <https://www.youtube.com/watch?v=avFoYtq7K8I>
- <https://www.youtube.com/watch?v=HAoZeW7CrOI>

Tuesday

- <https://www.youtube.com/watch?v=ikqgKqVNdE>

Wednesday

- https://youtu.be/U76Mc_wiWT4

Thursday

- <https://www.youtube.com/watch?v=uLCwSsOVXC0>
- <https://www.youtube.com/watch?v=WfQjavySUck>

Friday

- <https://www.youtube.com/watch?v=94uqqua6s>

- For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKewjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACqFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usg=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 06

Day 1

Chapter: 03 Wild life in Pakistan

- Name the common wild animals of Pakistan
- Explain major threats to Wildlife

Review: Q.no.13 (long) from textbook

Chapter: 03 Major Natural regions of Pakistan

- Explain the importance of plains of Pakistan
- Discuss issues associated with these deserts of Pakistan

Day 2

Pakistan Affair 06: Urbanization

- Explain reasons of urbanization
- Discuss major drawbacks of urbanization

Chapter: 03 Major Natural regions of Pakistan

- Identify the importance of seaports of Pakistan
- Explain dry mountain regions of Pakistan

Day 3

Pakistan Values 06: Determination

- Explain how strong determination and passion helps to get success

Video Links

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Monday

- <https://www.youtube.com/watch?v=caMkwhVqi-s>
- <https://www.youtube.com/watch?v=8lhqBhu7BrI>

Tuesday

- <https://www.youtube.com/watch?v=TD2f5UkLNCA>
- https://www.youtube.com/watch?v=uY_HOJ9MuX8

Wednesday

- <https://www.youtube.com/watch?v=DwcW12J1FFA>
- <https://www.youtube.com/watch?v=WpJTR-IAG6k>

Thursday

- <https://www.youtube.com/watch?v=qR1X04PgrUY>
- <https://www.youtube.com/watch?v=GuUleTbix-E>

Friday

- <https://youtu.be/MjOckHBc4zY>

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<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usg=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 07

Day 1

Chapter: 03 Salinity and Water logging

- Explain the major causes of salinity and water logging
- Explain the way through which salinity and water logging can overcome

Review: Q.no.3, 5, 7, 8, 10, 12 (short) from textbook

Chapter: 03 Major Environmental Hazards.

Deforestation

- Explain main reasons of deforestation in Pakistan
- How much total area of Pakistan is covered with forests

Reviews: Q.no.14 (long) from textbook

Day 2

Pakistan Affair 07: Global Warming

- Identify main factors causing Global Warming
- Identify important measures taken to control Global Warming

Chapter: 03 Major Environmental Hazards

Environmental pollution

- Explain how industrialization is the main reason of pollution
- Explain the causes of air pollution

Activity: Develop a plan to reduce air pollution

Review: Objective exercise & Q.no.16 (long) from textbook

Day 3

Pakistan Values 07: Respect

- "Do respect have respect" explain
- Explain how respect in mind can control your behaviors

Video Links

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Monday

- https://www.youtube.com/watch?v=DM_UCzGBei4
- https://www.youtube.com/watch?v=pJ58zLuU_3g

Tuesday

- <https://www.youtube.com/watch?v=5weAzmTQmdE>
- <https://www.youtube.com/watch?v=77HIS6zCEd4>

Wednesday

- <https://www.youtube.com/watch?v=jlBBRT9F3Wc>
- https://www.youtube.com/watch?v=d7Ci_EooW-k

Thursday

- <https://www.youtube.com/watch?v=wRTIKW3rwSw>
- https://www.youtube.com/watch?v=t7Q7y_xjR5E

Friday

- <https://www.youtube.com/watch?v=fp9dTTIQLPY>
- <https://www.youtube.com/watch?v=GkipANiBspE>

- For the solution of exercises on the basis of Board Pattern, students can take help from following notes:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoECACQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usq=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

اسلامیات سلیبس برائے جماعت نہم

جون ، جولائی 2020

عمومی ہدایات برائے طلباء و والدین

1. اسلامیات کی لکھائی خوشخط کریں۔
2. کام نیٹ کاپی پر کریں۔
3. حاشیہ ضرور لگائیں۔
4. عربی الفاظ کے معنی کے لئے تفسیر کا استعمال کریں۔
5. والدین سے درخواست ہیں کہ چھٹیوں کو کارآمد بنانے کے لئے دیا گیا کام اپنی نگرانی میں کروائیں۔ اور جہاں کہیں بھی ضرورت ہو متعلقہ استانی سے رابطہ کریں۔
6. ہمارا بنیادی مقصد یہ ہے کہ آپ کا تعلق اپنی تعلیم سے جڑا رہے۔ اسی مقصد کے تحت آپ کے لئے تخلیقی اور تعلیمی سرگرمیوں سے بھرپور تعطیلات کا کام تیار کیا گیا ہے۔

جماعت نہم

سلیبس پہلا ہفتہ

عزیز طلبہ اس ہفتے کا کام آپ کو دی گئی ہدایات کے مطابق مکمل کرنا ہے۔

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
4جون	سبق نمبر 1۔ سورۃ انفال آیت 5 تا 10	1،2	الفاظ /معنی	کتابی مواد	معارف القرآن کی تفسیر کروانا
5 جون	مشقی سوالات	3	سوال/جواب، عبارت کا مفہوم		
6 جون	سبق نمبر 1 کی دہرائی	1 سے لیکر 3 تک	مشقی سوالات یاد کرنا		

ورک شیٹ برائے جماعت نہم

مندرجہ ذیل الفاظ کے معنی لکھیں

الفاظ	معنی
کرہون۔
2۔ دابر
3۔ مردفین
4۔ وجلت
5۔ احدی

سوال نمبر۔ دو گروہوں سے کیا مراد ہے؟

سوال نمبر 2۔ اس سبق میں مومنوں کی کیا صفات بیان کی گئی ہیں؟

دوسرا ہفتہ

جماعت نہم

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
11 جون	سورۃ انفال - سبق نمبر، مشقی سوالات 2	4، 6، 5	الفاظ/معانی سوال/جواب، عبارت کا مفہوم	کتابی مواد/ نوٹس	معارف القرآن کی تفسیر کروانا
12 جون	سبق نمبر 3 آیت نمبر 20 تا 22	9-8-7	الفاظ/معانی عبارت کا مفہوم		
13 جون	پہلی حدیث	27	حدیث کا ترجمہ و تشریح		

ورک شیٹ 2

ورک شیٹ 2

جماعت نہم

سوال نمبر 1- سبق میں غزوہ بدر کے حوالے سے اللہ تعالیٰ نے کن انعامات کا ذکر کیا ہے؟

جواب۔

سوال نمبر 2- کفار کے ساتھ مقابلے کی صورت میں سورۃ انفال کی ان آیات کریمہ میں کیا ہدایات کی گئی ہیں؟

جواب۔

سوال نمبر 3- سورۃ انفال کا شان نزول بیان کریں۔

جواب۔

جماعت نہم

تیسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
18 جون	آیت نمبر 29 تا 37	10-11	الفاظ/ معنی		
19 جون	آیت نمبر 29 تا 37	12	مشقی سوالات، عبارت کا مفہوم	کتابی مواد/ نوٹس	معارف القرآن کی تفسیر کروانا
20 جون	حدیث نمبر، 2، 3	28، 29	حدیث کا ترجمہ و تشریح		

تیسرا ورک شیٹ جماعت نہم

الفاظ معنی

شرر الدواب

2. یخول

3. لا تخونو

4. استجیبو

سوال نمبر 1- سورة انفال میں حیانت سے کیا مراد ہے؟

سوال نمبر 2- شرا الدواب سے کیا مراد ہے؟

جماعت نہم
چوتھا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
25 جون	آیت نمبر 37 تا 44	صفحہ نمبر 13، 14	الفاظ/معنی، سوال/جواب عبارت کا مفہوم		
26 جون	حدیث نمبر 4	30-29	ترجمہ/تشریح	کتانی مواد/ نوٹس/ورک شیٹ	معارف القرآن کی تفسیر
27 جون	قرآن مجید	36، 35،	قرآن مجید کا مختصر تعارف، فضائل قرآن نوٹ		

ورک شیٹ نمبر 4

سوال نمبر 1- قرآن مجید کا مختصر تعارف بیان کری

سوال نمبر 2- فضائل قرآن پر نوٹ لکھیں۔

سوال نمبر 3- حدیث کا ترجمہ و تشریح لکھیں۔ من صلی علیٰ مرۃ فتح اللہ لہ بابا من العافیۃ۔

جماعت نہم

پانچواں ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کاکام	ذرائع	سرگرمی
2 جولائی	قرآن مجید	37	حفاظت قرآن		
3 جولائی	آیت نمبر 45 سے 48	16-17	الفاظ/معنی، مشقی سوالات	کتابی مواد / نوٹس / ورک شیٹ	معارف القرآن کی تفسیر
4 جولائی	حد پٹ 5 اور آیت نمبر 45 سے 48	16-30-17	عبارت کا مفہوم ترجمہ و تشریح		

ورک شیٹ نمبر 5

الفاظ

معانی

فائبنو

2. فتفشلو

3. بطرا

4. جار

5. تراءت

نکص علی عقبہ

سوال نمبر 1. حفاظت قرآن پر نوٹ لکھیں۔

چھٹا ہفتہ

جماعت نہم

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
9 جولائی	آیت نمبر 49 تا 58	18-19	سوال / جواب الفاظ/ معنی		
10 جولائی	آیت نمبر 49 تا 58	18-19	عبارت کا مفہوم	کتابی مواد/ نوٹس/ ورک شیٹ	معارف القرآن کی تفسیر
11 جولائی	اللہ اور اس کے رسول کی محبت	39	اسکی اطاعت اور محبت کیوں ضروری ہے		

ورک شیٹ

الفاظ

معنی

1. غر

2. عذاب الخریق

3. لم یک مغیرا

4. کذاب

5. تتقفن

6. شرد

7. فأنید

سوال نمبر 1۔ اللہ اور اس کے رسول کی محبت کیوں ضروری ہے؟

جماعت نہم

ساتواں ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
14 جولائی	اللہ اور اس کے رسول کی محبت	41،40،	اللہ کے ساتھ محبت		
15 جولائی	اللہ اور اس کے رسول کی محبت	43،42،	اطاعت ختم نبوت	کتابی مواد / نوٹس /	معارف القرآن کی تفسیر
16 جولائی	حدیث نمبر 6	31	ترجمہ و تشریح		

ورک شیٹ نمبر 7

سوال نمبر 1۔ ختم نبوت پر نوٹ لکھیں

سوال نمبر 2۔ حدیث کا ترجمہ و تشریح کریں۔

لیس منا من لم یرحم صغیرنا ولم یوقر کبیرنا

سوال نمبر 3۔ اللہ کے ساتھ محبت پر نوٹ لکھیں۔

ENGLISHS

Week #1

Day-1

Grammar:

Topic: Noun-concrete and abstract

Video Link: <https://youtu.be/mOQAOVqJBZQ>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet

WORKSHEET:

Name: _____

Nouns

A noun can be **concrete** or **abstract**.

Read each word in the box below. Determine whether the word is a concrete or abstract noun. Then write the word in the correct noun column below.

school	doctor	pain	love
intelligence	mirror	candy	beauty
trust	education	textbook	imagination
man	pizza	luck	internet
dream	cloud	hunger	beach

Concrete Nouns	Abstract Nouns

∴

Day-2**TOPIC :** Abstract or concrete noun**Activity:** Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.**Worksheet:**

SCHOLASTIC SCOPE	SKILLS: Understanding Abstract and Concrete Nouns
Section: Your World • Issue: November 10-24, 2008	
Name: _____ Class: _____ Date: _____	
<h1 style="margin: 0;">Abstract or Concrete?</h1> <p style="margin: 5px 0;">A concrete noun is something you can detect with your five senses—you can hear, see, smell, touch, or taste it. An abstract noun, such as "pride," cannot be detected with your senses.</p> <p style="margin: 5px 0;">Directions: Read the sentences below from the Your World section of this issue. Then, decide if the boldface word is an abstract or a concrete noun. Write an A in the blank for abstract or a C for concrete.</p>	
_____	1. Have you ever seen a plane zooming hundreds of feet over your head?
_____	2. British newlyweds Katie Hodgson and Darren McWalters love an adventure.
_____	3. Looks like these two were a match made in the heavens .
_____	4. Each story is only 366 words long!
_____	5. Though Brown didn't explore the South Pole, he writes about the sense of discovery he felt while reading about someone who did.
_____	6. Does the Twilight Saga book series for teens have you thirsting for more?
_____	7. But their vampire enemies aren't so nice.
_____	8. The winner this year was Tom Gizzard, who has more in common with the famous author than just his beard .
_____	9. The look-alike contest was part of a larger festival celebrating the life and work of the American novelist and short-story writer.
_____	10. While working on a site in London, England, builders recently struck literary history.
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center; margin: 0;">WRITE NOW!</p> <p style="margin: 0;">Write a paragraph about something that makes you happy. After you finish, underline the concrete nouns and circle the abstract ones.</p> </div>	

SCHOLASTIC SCOPE ONLINE REPRODUCIBLE • NOVEMBER 10-24, 2008

Day- 3**Topic: ABSTRACT OR CONCRETE NOUNS**

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Name: _____

Abstract Nouns

An abstract noun names an idea, event, quality, or concept.

Directions: Read each sentence below.
Circle the abstract nouns.

1. Can you believe that man's honesty?
2. The fireman showed bravery during the fire.
3. My birthday is in March.
4. After lunch, James felt very full.
5. Kelsey was in intense pain after she broke her arm.
6. Martin Luther King embraced peacefulness.
7. Babies have a lot of curiosity.
8. The girls were filled with joy.
9. The students showed happiness when they went to recess.
10. The soldier defended his country displaying his bravery.

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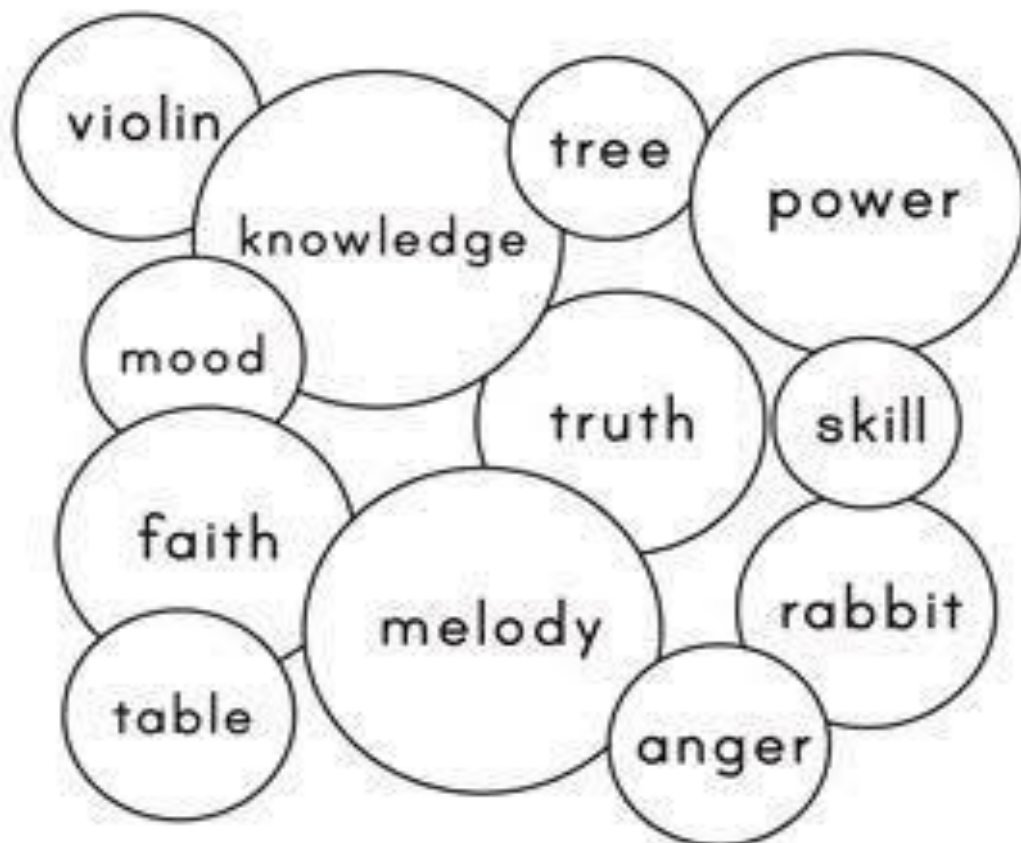
Week #2**Day- 1****Topic: Abstract and Concrete**

:Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet

Name _____

Concrete & Abstract Nouns

Concrete Nouns are nouns you can see, hear, smell, taste, or touch, whereas Abstract Nouns are nouns you cannot interact with physically. It can be an idea, a quality, a condition, an emotion, or even an event. Look carefully at the nouns below, color the Concrete Nouns orange, and the Abstract Nouns blue.



Day- 2**Topic: Parts of speech**

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

VIDEO link: <https://youtu.be/4vOlym9iTau>

Worksheet:

Name: _____

Pronouns

Possessive pronouns are used to show that something or someone belongs to someone else.

example: Tim bought a new laptop computer.

The computer is his.

The possessive pronoun his is referring to a laptop computer that belongs to Tim.




Use a possessive pronoun from the box below to complete each sentence.

Possessive pronouns include:

mine yours his hers its ours theirs

1. I bought a new video game. It is _____.
2. The jacket belongs to David. The jacket is _____.
3. The cats belong to Lisa and Sheila. The cats were _____.
4. This telephone number belongs to Betsy. It is _____.
5. You and I live in this house. The house is _____.
6. My dog is bigger than your dog. The larger dog is _____.
7. You go to Maple School. The school is _____.
8. Ted's baseball is over here. The baseball is _____.
9. That skateboard belongs to Jan. The skateboard is _____.
10. You want the last slice of pizza. The last slice is _____.
11. Mom and dad's car is in the driveway. The car in the driveway is _____.
12. My brother and I bought tickets. The tickets are _____.

Day- 3**Topic: TYPES OF PRONOUNS**VIDEO LINK: <https://youtu.be/4vOiyM9iTau>**Activity:** Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.**WORKSHEET:**



Using pronouns

Grade 3 Pronouns Worksheet


Fill in the blanks with the correct pronoun.

Word bank:

anyone he him it me none

she some them they we you

1. Laura told her friend Julie that she could not go to her house tonight.
2. Phil was happy to put his backpack down; _____ weighs a lot!
3. The plates are still dirty. You need to wash _____ again.
4. Angus finished his chores, so _____ can play on his tablet now.
5. Did _____ water the plants this week?
6. If there are extra markers, I would like _____ for my art.
7. Look at Jamie and Matt play basketball; _____ are really good.
8. You and I are the same; _____ both like sweets.
9. You need to give _____ a chance. I am new at this.
10. William is waiting for his turn. Don't make _____ wait too long.
11. _____ of us were able to answer the question.
12. I see Max and you are building a fort. Will _____ let me play with you?



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Week #3**Day- 1****Topic:** COMMON AND PROPER NOUNS:**Video Link:** https://youtu.be/h_GnSOIfWf4**Activity:** Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

K5 Learning

Types of pronouns

Grade 5 Pronouns Worksheet

Circle the pronoun in the sentence. Write the type of pronoun.

relative 1. The movie that Katie saw was fantastic.

_____ 2. Are these sunglasses yours?

_____ 3. Something seems wrong with this picture.

_____ 4. Did you do any homework today?

_____ 5. We let our dog run free for the afternoon.

_____ 6. The lady who lives in that house bought a new car.

_____ 7. None of these people have heard the song.

_____ 8. His mom said to go to the store and buy bread.


_____ 9. Robert will tell the man who works at the store.

_____ 10. The jewelry is mine.

A possessive pronoun refers to a specific owner:
mine, yours, my, hers, his, its, your, etc.

A relative pronoun connects a phrase to a noun/ pronoun:
who, which, that, whom, etc.

An indefinite pronoun doesn't refer to anything specific:
all, any, each, some, several, etc.



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Day-2**TOPIC: Regular and Irregular past tense verbs****Activity:** Dear Students, solve the worksheet carefully.**Worksheet:****Regular & Irregular
Past Tense Verbs**

Name: _____

Irregular verbs are verbs that do not follow the rules for what verbs are supposed to look and sound like in the past tense. Regular verbs are easy to find in the past tense because they end with the letters "-ed." You see them and use them all the time: talked, painted, worked, played, helped, smiled, cooked, turned, looked, wanted, etc.

Irregular verbs are sneaky because they don't follow the "-ed" rule. Some are just a little different, like verbs that end in "y" and the "y" changes to "i" before the "-ed" ending is added. Others take on some very unusual forms that you just have to remember. For example, you may sing in the choir today, but you **sang** in the choir yesterday, not "singed."




All of the verbs below are in the present tense. Some of them are regular verbs, and some are irregular verbs. Write the correct past tense form of each verb. Circle the Irregular Verbs.

- | | |
|------------------|-----------------|
| 1. bring _____ | 13. are _____ |
| 2. call _____ | 14. visit _____ |
| 3. sell _____ | 15. grow _____ |
| 4. swim _____ | 16. sit _____ |
| 5. create _____ | 17. wish _____ |
| 6. sleep _____ | 18. watch _____ |
| 7. stretch _____ | 19. run _____ |
| 8. come _____ | 20. learn _____ |
| 9. serve _____ | 21. fill _____ |
| 10. show _____ | 22. eat _____ |
| 11. teach _____ | 23. drive _____ |
| 12. carry _____ | 24. dance _____ |

Day- 3**Topic: IRREGULAR VERBS:**

Activity: Dear Students, answer the questions given in the worksheet.

Worksheet:




Irregular verbs

Grade 3 Verbs Worksheet

Some verbs form their past tense with a completely different word.
run – ran
sleep – slept

Fill in the blanks with the past tense of the verb.

1. The boys (*eat*) _____ their supper without a complaint.
2. The girls (*hear*) _____ a weird noise outside their house.
3. Fanny (*throw*) _____ the ball over the fence.
4. The students (*write*) _____ their names at the top of the page.
5. Last summer, we (*swim*) _____ at the lake.
6. Johnny (*take*) _____ guitar lesson with a great teacher.
7. Your dad (*buy*) _____ a new car.
8. I (*see*) _____ you at the park last night.
9. Lila (*set*) _____ the table before supper.
10. The students (*rise*) _____ for the national anthem.
11. The children (*sing*) _____ a song together.
12. Last night, we (*go*) _____ to the market.



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Week #4**Day-1****Topic: VERB SORT**

Activity: Dear Students, answer the questions given in the worksheet.

Worksheet:

Name: _____

Verb Sort

Regular or Irregular?

Regular verbs are verbs whose past tense or past participles are formed by adding d or ed to the end of the verb. Examples are: jump/jumped, play/played.

Irregular verbs don't conform to the above rule. Examples are: ran/run, fall/fell/fallen, eat/ate/eaten, say/said. (You would never say *runned* or *eated*.)

For each verb, put an **I** or **R** beside it and print their other forms:

grow _____	_____
give _____	_____
bake _____	_____
count _____	_____
hide _____	_____
hold _____	_____
fry _____	_____
greet _____	_____
help _____	_____
keep _____	_____
know _____	_____
joke _____	_____

© <https://worksheetsfloor.com>

Day-2**Topic: Count and Non count nouns****Activity:** Dear Students, answer the questions given in the worksheet.**Worksheet:**



Count & Non-Count Nouns

Count nouns are nouns you can count.
They are individual units, and can be split into parts.
Non-count nouns are words that can't be split into parts.

For each sentence, mark if the underlined words are count nouns or a non-count nouns.

1. He sat on the toy.
 toy: count noun non-count noun
2. The little girl knew so much information about planets.
 girl: count noun non-count noun
 information: count noun non-count noun
3. The chef mixed the butter, oil and flour.
 chef: count noun non-count noun
 butter: count noun non-count noun
 oil: count noun non-count noun
 flour: count noun non-count noun
4. The teacher jumped into the water.
 teacher: count noun non-count noun
 water: count noun non-count noun
5. Her heart was full of love.
 heart: count noun non-count noun
 love: count noun non-count noun

For more worksheets visit www.letsshareknowledge.com

Day-3**Topic: COUNT VS NON -COUNT**

Activity: Dear Students, answer the questions given in the worksheet.

Worksheet:

NAME: _____ DATE: _____

GRAMMAR ERROR CORRECTION

COUNT vs NON-COUNT



a, an, the

- Find and correct the 10 mistakes below (use: a, an, the – or delete a word).
- Put a check next to the 6 sentences with no mistake.

1. They have ^a new car.
2. Did she order coffee at the restaurant? ✓
3. I bought milk at the supermarket.
4. Do you still use phone that you bought?
5. Oh, no! My cup just fell on floor!
6. That was easy question.
7. I need time to finish my homework.
8. I was born on the first day of June.
9. They gave us an information about the college.
10. Did you have good time on your holiday?
11. Is there a sugar in my tea?
12. Canada is a big country.
13. I will meet him in hour.
14. Where can I buy furniture?
15. She always carries umbrella with her.
16. I just saw bird.



Week 5**Day-1****Topic: ARTICLES**

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

WORKSHEET:

NAME: _____

DATE: _____

GRAMMAR WORKSHEET**ARTICLES****a/an, the**

- *Julia and Steve want to buy a new home. They have come to see a house for sale.*
- *Complete the conversation below by adding 'a/an' or 'the'.*



Julia: Well, here we are, number 378 Maple Street. I think this is (1) the house we saw on-line. What do you think of (2) _____ location?

Steve: It's in (3) _____ nice neighborhood. And it's close to downtown.

Julia: And there's (4) _____ bus stop not too far away.

Steve: How many bedrooms are there?

Julia: Um. There are three bedrooms. They're all upstairs, I think.

Steve: There's (5) _____ back yard behind the house, right?

Julia: That's right. (6) _____ back yard is actually quite large. It would be great for our kids to play in.

Steve: Yeah, I think so, too. Did you see any photos of (7) _____ living room on-line? What does it look like?

Julia: (8) _____ living room looks great. It looks bright and sunny and it has (9) _____ nice view of (10) _____ mountains. But (11) _____ kitchen looks a little small.

Steve: And ... I remember you said there isn't (12) _____ basement, right?

Julia: No, but there is (13) _____ attic where we can put things.

Steve: Hmm That's good. Remember, we'll have to put our bicycles away during (14) _____ winter. I wonder if there's (15) _____ school nearby.

Julia: Let's ask (16) _____ real estate agent when she comes. She said she would be here at three o'clock.

Steve: Hey, look! There she is now!

Day-2**Topic: ARTICLES**

Activity: Dear Students, answer the questions given in the worksheet.

Worksheet:

Articles



Definite Article

A- Circle the correct option.

1. Look at *birds* / *the birds in sky* / *the sky* / *I love nature* / *the nature*.
2. Most people like *chocolate* / *the chocolate*.
3. They live in *United Kingdom* / *the United Kingdom*, in *Wales* / *the Wales*.
4. I don't read *newspapers* / *the newspapers* except for *Telegraph* / *the Telegraph*.
5. They went on a cruise in *Mediterranean* / *the Mediterranean*.
6. What would you like for *breakfast* / *the breakfast*?
7. Do you know *people* / *the people* who live next door.
8. *Unemployment* / *The Unemployment* is a big problem nowadays.
9. I climb *outside* / *the outside* of the buildings. I'm going to *New York* / *the New York* to climb *new Tower One* / *the new Tower One*, if *authorities* / *the authorities* let me.
10. Some children get *home* / *the home* from *school* / *the school* while their parents are still at *work* / *the work*.

___ / 10

B- Insert the whenever necessary.

1. tennis is my favourite sport.
2. It's late. I'll take you to airport.
3. I love Japanese food.
4. Where did you put flowers I gave you?
5. Paris is capital of France.
6. Maude is not feeling well. We must call doctor.
7. They have formed a band. John plays guitar and his brothers drums.
8. President of United States is making a speech.
9. When I went to London, I stayed at Hilton Hotel.
10. I value honesty more than anything else.
11. Have you ever climbed Eiffel Tower?
12. sequoia is tallest tree in world.
13. earth goes round sun. moon goes round earth.
14. There are millions of stars in sky.

___ / 14

ANSWER KEY


A -

1. the birds / the sky / nature;
2. chocolate;
3. the United Kingdom / Wales;
4. newspapers / The Telegraph;

Day-3**Topic: TYPES OF ARTICLES**

Activity: Dear Students, answer the questions given in the worksheet.

Worksheet:




TYPES OF ARTICLES


English Grammar

ARTICLE DEFINITION

An **article** is a word that modifies or describes the Noun. It is used before the noun to show whether it refers to something specific or not.



TYPES OF ARTICLE



Definite Article

Indefinite Article

DEFINITE ARTICLE

- **Definite:** To be clear, exact or obvious about something.
- It is called definite because it is used in relation to a particular thing or person.
- **"The"** is the definite article in English, which is used to refer to particular nouns, the identities of which are known.
- The definite article indicates that the noun is specific. The speaker talks about a particular thing.

For examples:


- **The** cat sat on the couch.
- **The** dog attacked me and ran away.

INDEFINITE ARTICLE

- **Indefinite:** Something which is not clear, obvious or exact.
- It is called indefinite because the identity of the thing or person being spoken about is left unclear or indefinite.
- It indicates that the noun is not someone or something in particular.
- The speaker talks about any one of that type of things. The indefinite articles in English are **"a"** and **"an."**

For examples:

- Do you have **a** pencil?
- I want to have **an** apple.



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Week 6**Day-1****Topic:: TYPES OF ARTICLES:**

Activity: Dear Students answer the questions given in the worksheet.

Worksheet:

TYPES OF ARTICLES



Name: _____
 Date: _____

DEFINITE ARTICLE

THE

We use the definite article **THE** with singular and plural nouns.

"The names of the authors of the books on the top shelf begin with the letter 'A'."

INDEFINITE ARTICLE

A/AN

We use the indefinite article **A/AN** with singular nouns. Choosing **A** or **AN** depends on the first sound, not letter, of the next word. We use **A** before consonant sounds (a) and **AN** before vowel sounds (b).

(a) *Have a banana!* || *Is this a one-way street?* || *I need a holiday.* || Write a 'U', then a 'P'

(b) *Have an apple!* || *Is it an old Rolls Royce?* || *He has an honest face.* || Write an 'W', then a 'O'

ZERO ARTICLE

⊘

We sometimes use nouns without articles.

"I like chips, but not fish." || *"Girls are quicker than boys."*

Activity 1.

Complete these descriptions with a, an, the or no article (-).

The Channel Islands are ___ group of ___ islands in ___ English Channel near ___ north-western coast of ___ France. They have belonged to ___ Britain since ___ Normans arrived in ___ 11th century, although they are not part of ___ United Kingdom.

Activity 3.

Choose an answer (a-f) for each question (1-6) and add a or the.

- How often have you done this? ()
- What exactly is an olive? ()
- Where's your dictionary? ()
- Why is it so bright outside tonight? ()
- What kind of career does Sally want? ()
- What does Mrs Reynolds' son do? ()

a. It's on ___ bottom shelf of my bookcase.
 b. I think he's in ___ navy.
 c. She'd like to be ___ journalist.
 d. I'm sure it's ___ fruit.
 e. It must be ___ moon.
 f. Yesterday was actually ___ first time.

Activity 3.a.

Match the pictures with the questions (1-6) of the third activity. You also may need to look at the answers (a-f).








Activity 2.

Complete these descriptions with a, an, the or no article (-).

Charlie Chaplin was ___ English film actor. He was also ___ director. He did most of his work in ___ USA. Many people consider him ___ greatest comic actor of ___ silent cinema. He appeared in many films as ___ poor man with ___ small round hat, ___ small moustache and ___ trousers and ___ shoes that were too big for him, causing him to walk in ___ funny way.

Activity 5.

Write appropriate articles (a/an, the* or no article (-)) for this introduction to a short story.

In my grandmother's dining room there was ___ glass-fronted cabinet and in ___ cabinet a piece of skin. It was ___ small piece only, but thick and leathery, with strands of ___ coarse, reddish hair. It was stuck to ___ card with ___ rusty pin. On ___ card was some writing in ___ faded black ink, but I was too young then to

Activity 4.

Complete these definitions with a, an, the or no article (-).

___ A Christmas tree is ___ evergreen or artificial tree decorated with ___ lights and ___ coloured ornaments in ___ people's homes at ___ Christmas.

___ An Easter Egg is ___ egg made of ___ chocolate or ___ hen's egg with ___ painted shell, given as present to ___ children at ___ Easter.

___ Thanksgiving (Day) is ___ public holiday in ___ USA, on ___ fourth Thursday in ___ November, and in ___ Canada, on ___ second Monday in ___ October.

Day-2**Topic:** Paragraph writing**Worksheet:** Write a paragraph on the following topics. (Word limit 100-150)

- Patriotism
- My aim in life

Day-3**Topic:** Letter writing**Worksheet:** Write a letter to your friend in abroad to discuss the Covid-19 situation here in Pakistan.**Week 7****Day-1****Topic:** 1- TYPES OF SENTENCES**Activity:** Make any two sentences from each type.**Worksheet:**

Types of Sentences

Declarative - a statement
 I have a basketball game tonight.
 I just finished reading that book.

Interrogative - a question
 Will you come to my game?
 Have you ever read this book?

Exclamatory - an exclamation
 We won the game!
 This is the best book I have ever read!

Imperative - a command - request
 Please come and watch me play.
 Read this amazing book!

Day-2**Topic: CAN YOU LIVE 2 WEEKS WITHOUT MEDIA**

Video Link: <https://youtu.be/B0Dk2Dna8fg>

Activity: Dear Students, watch the video lecture carefully and answer the questions given in the worksheet. Write a paragraph to share your views.

Worksheet:

Can you live 2 weeks without the Media?



1. What's the first thing you usually do when you wake up in the morning?
 - a) Have breakfast
 - b) Pick up a newspaper
 - c) Turn on the radio
 - d) Check your e-mail, Facebook, Twitter
2. How much time per week do you spend on watching TV?
 - a) Less than 7 hours
 - b) 7-21 hours
 - c) 21-30 hours
 - d) More than 30 hours
3. How often do you watch TV while eating your meals?
 - a) Hardly ever
 - b) Occasionally
 - c) Frequently
 - d) Always
4. How much time per week do you spend on listening to music?
 - a) Less than 7 hours
 - b) 7-21 hours
 - c) 21-30 hours
 - d) More than 30 hours
5. You listen to the radio:
 - a) Never
 - b) Rarely
 - c) Most days
 - d) Every day
6. How much time per week do you spend on watching movies?
 - a) Less than 7 hours
 - b) 7-14 hours
 - c) 14-21 hours
 - d) More than 21 hours
7. When was the last time you read a newspaper/magazine?
 - a) I can't remember
 - b) Some weeks ago
 - c) Last week
 - d) This morning
8. How much time per week do you spend on blogging or social networking?
 - a) Less than 7 hours
 - b) 7-14 hours
 - c) 14-21 hours
 - d) More than 21 hours
9. Are you online even when watching TV or listening to music?
 - a) Never
 - b) Sometimes
 - c) Mostly
 - d) Always
10. How many times a day do you look at your Smart Phone?
 - a) Whenever I need to call someone
 - b) When I have a break
 - c) Three times in an hour
 - d) Every 5 seconds

Results:

Most A - You can do perfectly well without the Media.

Most C - You could live 2 weeks without the Media but at great cost.

Most B - You like it, but your Media habits are still healthy.

Most D - You cannot imagine living in a world without the Media.

Day-3


Topic: Are you social media smart

Activity: Dear Students, answer the questions given in the worksheet.
Write an essay on the topic Impact of social media on new generation.

Worksheet:

Are You Social Media Smart? 

Write a note on the given Social Media logos. Write when they are used and how they are used. Do not forget to include the reasons for using social media app.

General Knowledge

Information Technology

Week 1

1. Who invented Compact Disc?
2. Which day is celebrated as world Computer Literacy Day?
3. Who invented Java?
4. Longhorn was the code name of ?
5. Who is known as the Human Computer of India?
6. What is mean by Liveware?
7. Which computer engineer got Nobel Prize for literature in 2003?
8. 'Weaving The Web' was written by.....
9. What is Beta Test?
10. 'Do no evil' is tag line of

Week 2

11. First Indian cinema released through internet is
12. Rediff.com was founded by.....
13. What is the extension of PDF?
14. Mows is a type of mouse for people
15. Expand RDBMS?
16. Difference engine was developed by.....
17. Orkut.com is now owned by
18. World's first microprocessor is
19. What is SQL?
20. What is the expansion of COBOL?

Week 3

21. What is the expansion of SMS?
22. Which IT company's nickname is ' The Big Blue ' ?
23. What is the full form of IEEE?
24. Who developed COBOL?
25. Email was developed by.....
26. Green dam is
27. What is the expanded form of CMOS ?
28. Who is Netizen ?
29. What is Scareware?
30. When was the first smart phone launched?

Week 4

31. Which Penguin is the mascot of Linux Operating system?
32. i pad is manufactured by
33. Which IT company got name from Sanfrancisco?
34. "Connecting people" is the tagline of
35. What is IMEI?
36. What is e-zine?
37. What is the expansion of ASCII?
38. Who developed first portable computer?
39. What is NIC?

Week 5

40. Whose motto is "wisdom of mass principle"?
41. Who is the father of computer ethics?
42. Who is youngest software developer ?
43. What is a blog?
44. What is NISG?
45. Tic-Tac-Toe is
46. "Oruma" is Linux based software development by?
47. ABC (computer) was developed by ?
48. GPS was developed by?
49. Expand SUN in sun Microsystem.
50. 'Being digital' is a famous book written by ?

Week 6

51. What is Blue Brain project?
52. Which famous web site was found by Jeffrey Bezos?
53. What is Cyber bullying?
54. Cyber-check is software developed by
55. What is pod slumping?
56. In which year the first legalized personal computer sold in Cuba?
57. What is three finger salutes?
58. In which year Microsoft Office was launched?
59. What is meant by Mouse potato?
60. Who wrote 'Just for fun' ?

اردو

پہلا ہفتہ :

- ۱۔ علامہ اقبال کو حکیم الامت کا خطاب کس نے دیا تھا؟
- ۲۔ اردو نثر نگاروں میں تاریخ کس کا پسندیدہ موضوع ہے؟
- ۳۔ کفن کس کی کہانی ہے؟
- ۴۔ انیسویں صدی میں اردو کا مزاحیہ اخبار کون سا تھا؟
- ۵۔ ذوق و شوق کس کی نظم ہے؟
- ۶۔ سر عبد القادر نے کون سا ادبی رسالہ نکالا؟
- ۷۔ کون سے مشہور شاعر تھے جو اپنی زندگی میں ہی اپنے نام کے ساتھ مرحوم لکھتے تھے؟
- ۸۔ رسالہ "تہذیب اخلاق" کے ایڈیٹر کون تھے؟
- ۹۔ مصور غم کا خطاب کسے ملا؟
- ۱۰۔ علامہ شبلی نعمانی کی آخری تصنیف کونسی ہے؟

دوسرا ہفتہ :

۱. علامہ اقبال پر چھپنے والی پہلی انگریزی کتاب کا کیا نام تھا؟
۲. خواجہ میر درد کا مزار کہاں ہے؟
۳. مسدس میں کتنے مصرعے ہوتے ہیں؟
۴. اقبال صبح کو عموماً کب بیدار ہوتے تھے؟
۵. حسرت موہانی کا اصل نام کیا تھا؟
۶. کونسا شاعر غم عشق اور غم روزگار کا شکار تھا؟
۷. نظم "مسدس مدوجزر اسلام" کس نے لکھی؟
۸. وہ لفظ جس سے کسی اسم کی کیفیت یا حالت معلوم ہو؟
۹. حروف کسے کہتے ہیں؟
۱۰. بانگ درا کب شائع ہوئی؟

تیسرا ہفتہ:

۱. پیش کے معنی ہیں؟
۲. غزل کے آخری شعر کو کیا کہتے ہیں؟
۳. اردو کا پہلا صاحب دیوان شاعر کون ہے؟
۴. یا دگار غالب کتاب میں کس شاعر کی سوانح ہے؟
۵. حروف کے مجموعے کو کیا کہتے ہیں؟
۶. اردو کا پہلا غزل گو شاعر کون تھا؟
۷. خواجہ میر درد کا اصل نام کیا تھا؟
۸. میر انیس نے کتنے مرثیے لکھے؟
۹. سعادت حسن منٹو کا پہلا افسانہ کونسا تھا؟
۱۰. دنیا میں سب سے پڑھی جانے والی کتاب کون سی ہے؟

چوتھا ہفتہ :

۱. پنجابی کے کتنے لہجے ہیں؟
۲. پنجابی کا کون سا لہجہ معیاری تھا؟
۳. میں بت شکن ہوں، بت فروش نہیں۔ یہ جملہ کس مسلمان بادشاہ نے کہا تھا؟
۴. حیات جاوید کس نے لکھی؟
۵. اقلیت کی ضد کیا ہے؟
۶. پھل کا ہم معنی لفظ بتائیں؟
۷. عالم کی جمع کیا ہے؟
۸. خطاب کسے کہتے ہیں؟
۹. کنیت کسے کہتے ہیں؟
۱۰. نظم لکھنے والے کو کیا کہتے ہیں؟

پانچواں ہفتہ :

۱. نظم کے لغوی معنی کیا ہیں؟
۲. حمد کون سی نظم کو کہتے ہیں؟
۳. نعت کسے کہتے ہیں؟
۴. نثر کے لغوی معنی کیا ہیں؟
۵. نثر لکھنے والے کو کیا کہتے ہیں؟
۶. نثر کی کوئی سی تین اقسام کے نام لکھیں؟
۷. اردو زبان کی کسی مشہور داستان کا نام بتائیں؟
۸. ناول کس زبان کا لفظ ہے؟
۹. اردو ادب میں ناول نگاری کا آغاز کب ہوا؟
۱۰. مرات العروس کس کا ناول ہے؟

چھٹا ہفتہ :

۱. اردو میں مشہور مزاح نگاروں کے نام لکھیں؟
۲. مکالمہ کسے کہتے ہیں؟
۳. شب کی ضد کیا ہے؟
۴. رسالہ "اردو" اور "سائنس" کس نے جاری کیا؟
۵. اردو املا کا مصنف کون ہے؟
۶. تاریخی ناول نگار کون تسلیم کیے جاتے ہیں؟
۷. ناصر کاظمی کا اصل نام کیا ہے؟
۸. مرزا غالب کا اصل نام کیا ہے؟
۹. "سبک دوش ہونا" محاورہ کا معنی کیا ہے؟
۱۰. "آستین چڑھانا" کا معنی کیا ہے؟

History

Week One

In order to answer correctly, visit the given links.

<https://www.youtube.com/watch?v=4cHltZx0kIY>

<https://www.youtube.com/watch?v=n9EUqloBJXA>

<https://www.youtube.com/watch?v=BUUBPzSurgY>

1. Which country has the oldest National Flag?
a) Denmark b)Japan c)India d)China
2. American Presidential elections are held at every ___ years?
6 4 2 5
3. When and where was Islam founded?
4. Who is known as the founder of the 'Republic of Turkey'
Ismet Inonu Fevzi Cakmak Mustafa Kemal Ataturk None of the mentioned
5. What year was Buddhism founded?
102 ADE 720 BCE 563 BCE 645 ADE
6. The island of Sri Lanka formerly known as
Maldives Bali Ceylon Madagaskar
7. In which year 'University of Oxford' was founded
1016 1562 1117 1342
8. Tipu sultan was the ruler of
Hyderabad Madurai Mysore Vijayanagar
9. Ustad Mansur was a famous painter in the region of
Shajahan Akbar Humayun Jahangir
10. Two of the great Mughals wrote their own memories. They were
Babar and Humayun Humayun and Jahangir
Babar and Jahangir Jahangir and Shahjahan

Week Two

In order to answer correctly, visit the given links.

<https://www.youtube.com/watch?v=xVf5kZA0HtQ>

<https://www.youtube.com/watch?v=hO1tzmi1V5g>

<https://www.youtube.com/watch?v=MWrY7thtIAY>

<https://www.youtube.com/watch?v=BxKjloSaVMk>

<https://www.youtube.com/watch?v=PBn7iWzrKol>

<https://www.youtube.com/watch?v=HUqy-OQvVtI>

<https://www.youtube.com/watch?v=HkLsufEhYCo>

1. Rivers Tigris and Euphrates are associated with?

- (A) Mesopotamian Civilization
- (B) Egyptian Civilization
- (C) Harappan Civilization
- (D) Chinese Civilization

2. Which is considered as the oldest civilization of the world?

- (A) Mesopotamian Civilization
- (B) Egyptian Civilization
- (C) Harappan Civilization
- (D) Chinese Civilization

3. Which among following is called "Gift of the Nile"?

- (A) China
- (B) India
- (C) Iraq
- (D) Egypt

4. Who is known as the father of Modern Medicine?

- (A) Euclid
- (B) Pythagoras
- (C) Hippocrates
- (D) Eratosthenes

5. Vasco da Gama reached in India in the year?

- (A) 1495
- (B) 1496
- (C) 1497
- (D) 1498

6. America was discovered in?

- (A) 1491
- (B) 1492
- (C) 1493
- (D) 1494

7. Magna Carta or The Great Charter was signed in:

- (A) 1210
- (B) 1215
- (C) 1220
- (D) 1225

8. French Revolution was started in the Year?

- (A)1786
- (B)1787
- (C)1788
- (D)1789

9. When did World War 2 start?

- (A)1937
- (B)1938
- (C)1939
- (D)1940

10. In which year Hitler became the Chancellor of Germany?

- (A)1932
- (B)1933
- (C)1944
- (D)1945

Week Three

https://www.youtube.com/watch?v=e1XE3P_GPn4
<https://www.youtube.com/watch?v=53vmQNVBm0w>
https://www.youtube.com/watch?v=YTazZMcJU_M
<https://www.youtube.com/watch?v=AKpDeq-ogxl>
<https://www.youtube.com/watch?v=Rm0qsZPJnc8>

1. **The Renaissance scientist who explained how planets moved around the sun was?**
 - a) Kepler
 - b) Rabelais
 - c) Francis Bacoor
 - d) Gutenberg
2. **The European renaissance started from which country**
 - a) England
 - b) French
 - c) Italy
 - d) Greece
3. **Who is also known as the founder of scientific socialism?**
 - a) Karl Marx
 - b) Lenin
 - c) Rousseau
 - d) Engels
4. **Who said that “Man is a political animal”?**
 - a) Aristotle
 - b) Karl Marx
 - c) Lenin
 - d) Plato

5. **Who is known as "Father of History"?**
 - a) Mark Antony
 - b) Nero
 - c) Herodotus
 - d) Homer
6. **In which year, Alexander the Great become the king of Macedonia**
 - a) 336 BC
 - b) 323 BC
 - c) 350 BC
 - d) 200 BC
7. **Who is known as the Artist of the world-famous painting 'Mona Lisa'**
 - a) Filippo Brunelleschi
 - b) Michelangelo
 - c) Vincent van Gogh
 - d) Leonardo da Vinci
8. **Industrial Revolution was started from which country**
 - a) French
 - b) Germany
 - c) Italy
 - d) England
9. **Which city was recaptured at the end of the first war of Crusade?**
 - a) Rome
 - b) Venice
 - c) Jerusalem
 - d) Vienna
10. **The first newspaper in the world was started by?**
 - a) Japan
 - b) China
 - c) USA
 - d) India

Week Four

<https://www.youtube.com/watch?v=w0bDIJhYULs>
<https://www.youtube.com/watch?v=SaAmfiJtV4I>
<https://www.youtube.com/watch?v=ew993Wdc0zo>
<https://www.youtube.com/watch?v=U92cr46-Ws>
https://www.youtube.com/watch?v=p7HKvqRI_Bo

1. **The SAARC organization was launched for**
 - a) political alliances
 - b) regional cooperation
 - c) cultural exchanges
 - d) military strategy

2. **The headquarters of U.N. is located in**
 - a) Rome
 - b) Geneva
 - c) New York
 - d) Washington D.C.
3. **The five permanent members of UN security council are**
 - a) Japan, West Germany, USSR, UK and USA
 - b) Canada, China, France, USSR and USA
 - c) Germany, China, USSR, UK and USA
 - d) **China, France, USSR, UK and USA**
4. **Permanent Secretariat to coordinate the implementation of SAARC programme is located at**
 - a) Dhaka
 - b) New Delhi
 - c) Colombo
 - d) **Kathmandu**
5. **Which of the following countries is not a member of a SAARC**
 - a) Sri Lanka
 - b) Myanmar
 - c) Maldives
 - d) Bhutan
6. **When was SAARC founded?**
 - a) 1982
 - b) 1984
 - c) 1985
 - d) 1983
7. **Amnesty International is an organisation associated with which of the following fields?**
 - a) Protection of Cruelty to animals
 - b) Environment protection
 - c) Protection of human rights
 - d) **Protection of historic monuments**
8. **Which of the following is a cultural organisation?**
 - a) UNESCO
 - b) ILO
 - c) WHO
 - d) FAO
9. **The head quarters of the International Red Cross is situated in:**
 - a) Vienna
 - b) Paris
 - c) Hague
 - d) Geneva
10. **The Karachi Stock Exchange was established on :**
 - a) 18 August 1947
 - b) 18 September 1947
 - c) 18 October 1947
 - d) 18 November 1947

Week Five

<https://www.youtube.com/watch?v=95TtXYjOEv4>
<https://www.youtube.com/watch?v=9mCoVeljQBQ>
https://www.youtube.com/watch?v=BsqKTJtK_vw
<https://www.youtube.com/watch?v=8McizDCj6qE>
https://www.youtube.com/watch?v=6GyTyHnCX_E
<https://www.youtube.com/watch?v=YbAWny7FV3w>

1. **The largest latitude circle on earth is**
 - a) Arctic Circle
 - b) Tropic of Cancer
 - c) Tropic of Capricorn
 - d) The Equator
2. **Tropic of Cancer doesn't pass through**
 - a) India
 - b) Myanmar
 - c) Pakistan
 - d) **China**
3. **The Tibetan Plateau is also known as**
 - a) wall of the world
 - b) cliff of the world
 - c) top of the world
 - d) roof of the world
4. **The types of the valleys on the basis of their shapes includes**
 - a) U-shaped and V-shaped
 - b) C-shaped
 - c) O-shaped
 - d) W-shaped
5. **The long depression which is surrounded by the high grounds is classified as**
 - a) plain
 - b) valley
 - c) hill
 - d) plateau
6. **The extensive stretched piece of land is classified as**
 - a) hill
 - b) plateau
 - c) plain
 - d) valley
7. **The factors that contributes into the formation of hills includes**
 - a) solidifying magma
 - b) mountain erosions
 - c) deposition from glacier
 - d) all of above

8. **The intensive cultivation on land by which soil fertility is destroyed and lost is called**
- a) desertification of land
 - b) cloud seeding of land
 - c) catchment of land
 - d) over cultivation of land
9. **The percentage of land surface of earth which is covered with hot deserts is**
- a) 13%
 - b) 16%
 - c) 21%
 - d) 25%
10. **The kind of farming through which steep areas can also be used for cultivation is classified as**
- a) forestation
 - b) terrace farming
 - c) desertification
 - d) deforestation

Week Six

<https://www.youtube.com/watch?v=JAN6Tz4lwmA>

<https://www.youtube.com/watch?v=tYKZUUNCPHk>

<https://www.youtube.com/watch?v=yS5FTnW3Jqo>

1. **The technique of growing crops without soil is classified as**
- a) geaponics
 - b) tetraponics
 - c) hexapodies
 - d) hydroponics
2. **Besides the forest fires as natural source of pollution, the other major sources of pollution are**
- a) zonal settlement patterns
 - b) human activities
 - c) falling of meteoroids
 - d) nucleated settlement patterns
3. **The kind of land pollution in which salt content rises and land becomes unsuitable for farming is called**
- a) carbonization of soil
 - b) deoxygenating of soil
 - c) salinization of soil
 - d) oxygenation of soil
4. **The causes of air pollution includes**
- a) chlorofluorocarbon
 - b) cars and motor vehicles
 - c) power plants and industries
 - d) all of above

5. **The major types of pollution includes**
- air pollution
 - land pollution
 - water pollution
 - all of above
6. **The business of raising animals and growing of crops is classified as**
- agriculture
 - farming
 - forestation
 - afforestation
7. **The agriculture gives many benefits to countries and individuals which includes**
- food supply source
 - employment of labor
 - foreign exchange earnings
 - all of above
8. **The large scale destruction of forests is classified as**
- Willow destruction
 - tundra destruction
 - afforestation
 - deforestation
9. **The average weather conditions in given place over longer period of time are called**
- season
 - atmosphere
 - weather
 - climate
10. **The heat of sun is not stronger in the area located**
- near the North Pole
 - near the equator
 - far from equator
 - near the South Pole

Islamiyat

1st week

انفال کے لفظی معنی کیا ہیں
 مال غنیمت کے متعلق اسلامی احکام کیا ہیں
 .سورۃ الانفال کی پہلے آیت میں مومنین کو کیا کیا نصیحتیں کی گئی ہیں
 .سورۃ الانفال کی پہلے آیت میں مومنین کو کیا کیا نصیحتیں کی گئی ہیں
 .علم کے لفظی معنی تحریر کریں
 .اللہ تعالیٰ نے انسان کی جسمانی اور فطری ضروریات پوری کرنے کے لیے کیا اہتمام فرمایا
 .قرآن کریم کا سابقہ آسمانی کتب کے ساتھ کیا تعلق ہے
 .زکوٰۃ کے لفظی معنی کیا ہیں
 .اسلامی شریعت میں زکوٰۃ سے کیا مراد ہے
 .نصاب کسے کہتے ہیں

2nd week

زکوٰۃ کی اہمیت بیان کریں
 قرآن کریم میں زکوٰۃ کی کون کون سے مصارف ہیں
 ہمیں اللہ تعالیٰ کی محبت کیے حاصل ہوسکتی ہے
 علم کے لفظی معنی تحریر کریں
 دوگروہوں میں سے ایک گروہ سے کیا مراد ہے
 غیر ذات الشوکتہ سے کیا مراد ہے
 غزیر بدر کے دوران اللہ تعالیٰ نے فرشتوں کو کیا حکم دیا
 مسلمانوں کا مشرکین سے جنگ کے سلسلے میں کیا ہدایت دی گئی
 اللہ تعالیٰ کے نزدیک بدترین جانور کون لوگ ہیں
 مال و اولاد کے فتنہ سے کیا مراد ہے

3rd week

یسلونک عن الانفال کا ترجمہ کریں
 کفار کے اسلام دشمنی سے باز اجانے پر اللہ تعالیٰ نے ان سے کیا وعدہ کر رکھا ہے
 مسلمانوں کو کفار خواب میں تھوڑے نظر آئے تو اس کا کیا فائدہ ہوا
 کفار سے مقابلے کے دوران کامیابی کے لیے اللہ تعالیٰ نے مومنین کو کن کن باتوں کی تاکید کی ہے
 کفار منافقین نے مسلمانوں کو جہاد کے لیے تیار ہوتے دیکھ کر کیا تبصرہ کیا
 سورہ انفال کی آیات میں اللہ تعالیٰ نے آل فرعون کی تباہی کی کیا وجہ بتائی ہے
 سامان جنگ تیار رکھنے کا مقصد کیا بیان کیا گیا ہے
 اگر کوئی دشمن اسلام مسلمانوں کی طرف صلح کا ہاتھ بڑھائے تو کیا کرنا چاہیے
 مومنین کی باہمی الفت کے متعلق آپ صلی اللہ علیہ وسلم سے مخاطب ہو کر اللہ تعالیٰ نے کیا فرمایا ہے
 غزوہ بدر میں کتنے کفار و مشرکین کو مسلمانوں نے قیدی بنایا

4th week

وحی کسے کہتے ہیں
 آپ صلی اللہ علیہ وسلم پر سب سے پہلی وحی جو نازل ہوئی اس کے الفاظ کیا ہیں
 قرآن کریم کی رو سے قلم کے ذریعے کس نے علم سکھایا
 زمین پر انسان کی حیثیت کیا ہے
 کس بنا پر حکم ہوا کہ وہ حضرت آدم علیہ کو سجدہ کریں
 آپ صلی اللہ علیہ وسلم کو علم میں اضافہ کے لیے کون سی دعا سکھائی
 فدیہ کسے کہتے ہیں
 غزوہ بدر میں پڑھے لکھے قیدیوں سے کیا فدیہ لیا گیا
 مسلمان کے لیے معاشی طور پر فنون کا سیکھنا کیوں ضروری ہے
 خطبہ جمعہ کے دوران خاموشی اختیار کرنے کے بارے میں آپ (ص) نے کیا فرمایا؟

5th week

جمعہ کے دن کو باقی ایام کے مقابلے میں کیا فضیلت حاصل ہے؟
 طہارت کا مفہوم بیان کریں؟ یا طہارت کے معانی تحریر کریں
 طہارت کی قسمیں بے ان کریں
 طہارت کے بارے میں ایک آیت کا ترجمہ لکھیں
 وضو کے چار فرائض لکھیں

طہارت کے فوائد بیان کریں
اللہ کی راہ میں سعی اور کوشش کی کیا اجر ہے؟ یا اللہ نے کس کو آگ پر حرام کر دیا؟
ہجرت کے لغوی معنی کیا ہیں؟

اسلام میں ہجرت کا مفہوم کیا ہے؟ یا ہجرت سے کیا مراد ہے؟
اگر کسی کے پاس ہجرت کے وسائل نہ ہوں تو اس کے لیے کیا ارشاد ہے؟ یا جو لوگ مجبوری کی بنا پر ہجرت نہ کر سکے تو ان کے لیے کیا حکم ہے؟

6th week

ہجرت کے ہوالے سے سورۃ النحل میں کیا ارشاد ہوتا ہے؟ یا ہجرت کرنے والوں کو سورۃ نحل میں کیا ، بشارتیں دی گئی ہیں؟
ہجرت کرنے والے اللہ تعالیٰ کی رحمت کے حق دار قرار پاتے ہیں۔ اس حوالے سے ارشاد ربانی لکھیں؟ یا اجر مہاجر پر آیت
قرآنی کا ترجمہ تحریر کریں

جہاد کے فرض ہونے سے پہلے سب سے بڑا عمل کیا تھا؟
اسلام میں جہاد کا کیا مفہوم ہے؟ یا جہاد سے کیا مراد ہے؟
روزہ کے اصطلاحی معنی بیان کریں؟
حدیث کے مطابق روزے کی قبولیت کی کون سی دو شرائط ہیں؟
روزہ دار کے لیے کتنی خوشیاں ہیں اور کون کون سی ہیں؟
للصائم فرحتان کا ترجمہ لکھیں

ترجمہ کریں: وسبحوة بكرة وأصيلا
شاہد، مبشر اور نذیر کس نبی کے اوصاف ہیں؟

English

Week 1

- Select the option which completes the following sentence correctly.
He seems to be getting _____ at scooter.
a. Better and better
b. Best and better
c. More better
d. Best
- A. Why wasn't Jennifer at the party on Saturday?
B. She _____ about the date change.
a. wasn't been told
b. hadn't been told
c. hadn't told
d. wasn't been informed
- A: Who won the tournament?
B: Both teams, they _____ for first place.
a. Tie
b. Tied
c. Are tying
d. Won

4. Hardly had I opened the door _____ I heard somebody scream.
- But
 - After
 - When
 - Than
5. Late _____ it was, he still called her.
- Although
 - Despite
 - Nevertheless
 - Though
6. Dinner will be ready by the time you _____ home.
- Have come
 - Will come
 - Will have come
 - Come
7. I wish I _____ that piece of cake. I had a stomachache all night long.
- Could not eat
 - Had not eaten
 - Did not eat
 - Would not eat
8. This soup isn't _____ to eat yet.
- Warm enough
 - Very warm
 - Too warm
 - Much warmer
 - The warmest
9. _____ a donation, but she also founded an organization for the homeless.
- She only made
 - She did only make
 - Not only she made
 - Not only did she make
 - She only made not
10. Let's ask Nicolas _____ on his birthday.
- He wants
 - Does he want
 - What he wants
 - What does he want
 - He doesn't want

WEEK#2

1. It is very important that you _____ here on time for the meeting tomorrow.
 - a. Are being
 - b. Be
 - c. Will have been
 - d. Are
 - e. Will be

2. Travelling to a foreign country has _____ its positive and negative points.
 - a. Both
 - b. Neither
 - c. Also
 - d. Either
 - e. Not only but also

3. Last week, we _____ to the new Thai restaurant.
 - a. Was going
 - b. Went
 - c. Have gone
 - d. Had gone
 - e. Were going

4. You _____ have seen Jane at the mall! She is in Canada right now.
 - a. Shouldn't
 - b. Must
 - c. Needn't
 - d. Couldn't
 - e. Wouldn't

5. If everyone did their part, the earth _____ a cleaner place.
 - a. Was
 - b. Must be
 - c. Will be
 - d. Would be
 - e. Were

6. _____ in magic?
 - a. Are u believing
 - b. Do you believe
 - c. Have you believed
 - d. Would you believe
 - e. Will you believe

7. I am not sure, but I think that the new restaurant _____ by Mr. Davenport.
- Owns
 - Is belonged
 - Owned
 - Belongs
8. The old chair _____ to an antique collector yesterday afternoon.
- Was selling
 - Has sold
 - Was sold
 - Sold
 - Will be sold
9. _____ the invention of email, many people still prefer writing letters.
- Despite
 - Even though
 - In spite
 - Although
 - However
10. A: Did you hear about Stan?
B: He had his house _____ into the last night.
- Break
 - Broken
 - Broke
 - Breaking
 - Breaks

Week# 3

1. Thanks for calling! I look forward _____ you soon.
- See
 - To seeing
 - To see
 - Seeing
 - Saw
2. A: Do you know where Peter is?
B: Well, he left his house an hour ago, so I suppose he _____ at the airport by now.
- Will arrive
 - Is arriving
 - Will have arrived
 - Will be arriving
 - Arrived

3. Not even once _____ she was guilty of stealing the money.
- Did I think
 - Was I thinking
 - I thought
 - I didn't think that
 - I was thinking
4. I need to get some orange juice, but I doubt _____ of the grocery stores are open now.
- Few
 - Any
 - Some
 - One
5. Motorists are advised to exercise _____ when travelling in icy condition.
- Alarm
 - Warning
 - Alertness
 - Caution
 - A lot
6. The _____ of the damage caused to the building is unknown.
- Amount
 - Quantity
 - Extent
 - Strength
 - Influence
7. Mike's house was _____ last night. Someone sprayed paint on his front door last night.
- Cheated
 - Robbed
 - Vandalized
 - Burglarized
 - Stolen
8. Do you know how to _____ grams into pounds?
- Arrange
 - Exchange
 - Convert
 - Change
 - Switch

9. Jason's new stereo didn't work properly, so he took it back for a full _____.
- Repair
 - Refund
 - Replacement
 - Return
 - Exchange
10. Travelling to foreign countries is a great way to _____ the mind.
- Enlarge
 - Increase
 - Widen
 - Bigger
 - Broaden

Week # 4:

- Antonym of Inscrutable?
 - Baffling
 - Obvious
 - Confuse
 - Reduce
- There are _____ views on the issue of giving the employees.
 - Independent
 - Divergent
 - Modest
 - Adverse
- Officer : Could I have your name please?
Ali Topan : It's Topan. Ali Topan.
Officer: And..... are you, Mr.Topan?
Ali Topan : I'm 25 years.
 - How tall
 - How old
 - How big
 - How heavy
- There is a dining room. Dining room means a room for _____.
 - You eat meal
 - You keep books
 - You keep some food
 - You sleep

5. The birds _____ into the sky.
- Fly
 - Flies
 - Flying
 - Flew
6. The cat _____ all the plates on the table.
- Break
 - Breaks
 - Are breaking
 - Is breaking
7. Which is the largest island in the world?
- Oceania
 - Greenland
 - Auckland
 - Iceland
8. Complete the sentence with the correct pronoun
Ani forgot to bring _____ magazine.
- His
 - Her
 - Their
 - Them
9. I'm ignorant _____ your failure.
- Of
 - About
 - As
 - With
10. Use the correct model verb.
You _____ not like the colour of this room.
- Are
 - Is
 - Might
 - Never

Week# 5:

1. Choose the word with correct spellings
- Tandency
 - Tendency
 - Tendancy
 - Tandancy

2. He failed because he did not work hard.
The underlined phrase is an
- Adverbial clause of reason
 - Adverbial clause of time
 - Adverbial clause of place
 - Adverbial clause
3. Bitters means
- Sour
 - Unhappy
 - Hard to bear
 - Angry
4. Choose the correct spellings.
- Ottoman
 - Ottoman
 - Automan
 - Ottoman
5. We are studying _____ English book. Choose the correct article.
- A
 - An
 - The
 - None of these
6. The moment which is lost is lost forever.
- Indefinite pronoun
 - Reflexive pronoun
 - Possessive pronoun
 - Relative pronoun
7. She said to them, "You are dishonest".
In indirect speech the word underlined word will be changed into:
- They
 - He
 - We
 - She
8. Islam is the greatest protector of human_____.
- Independence
 - Values
 - Choice
 - Rights

9. Abash means
- Alone
 - Embarrassed
 - Hurt
 - Injured
10. The houses were _____ down by blast.
- Shaken
 - Moved
 - Blown
 - Destroyed

Week#6

1. Choose the correct simile
She loses her energies like a winter _____
- Moon
 - Day
 - Night
 - Water
2. The subjugation of women is an important subject matter of _____
- George Eliot
 - Thomas Hardy
 - J.K Rowling
 - John Keats
3. Who is the author of the play Hamlet
- William Shakespeare
 - Anna Hazlitt
 - Bernard Shaw
 - William Wordsworth
4. Hamlet is a
- Trajedy
 - Comedy
 - Farce
 - Traji-comedy
5. Lady Macbeth was into the habit of _____
- washing her hands time and again
 - making fun
 - going to a vanity fair
 - making over

6. The following play of Shakespeare starts with the scene of witches.
 - a. A midsummer night's dream
 - b. Macbeth
 - c. Hamlet
 - d. Richard II

7. The attribution of human traits to something non-human
 - a. Simile
 - b. Tragedy
 - c. Personification
 - d. Alliteration

8. The occurrence of same letter or sound at the beginning of closely connected words

 - a. Metaphor
 - b. Alliteration
 - c. Sonorous
 - d. Homophones

9. A bad workman always blames his tools. The proverb is used when
 - a. A Person shows off
 - b. A person could not perform the task rightly due to bad equipment
 - c. A person blames his equipments or social factors because of his own poor performance
 - d. A person compares himself with others

10. To call a spade a spade. This idiomatic phrase suggests _____
 - a. To speak outrightly even at the time of opposition
 - b. To talk too much
 - c. To speak with stupidity
 - d. To talk someone on phone.

Science

Week # 1

1. Which famous scientist introduced the idea of natural selection?

2. A person who studies biology is known as a?

3. Botany is the study of?

4. Can frogs live in salt water?

5. True or false? The common cold is caused by a virus.

6. Animals which eat both plants and other animals are known as what?

7. Bacterial infections in humans can be treated with what?

8. A single piece of coiled DNA is known as a?

9. A group of dog offspring is known as a?

10. The area of biology devoted to the study of fungi is known as?

Week # 2

1. What is the name of the process used by plants to convert sunlight into food?

2. The death of every member of a particular species is known as what?

3. The process of pasteurization is named after which famous French microbiologist?

4. True or false? A salamander is a warm blooded animal?

5. A change of the DNA in an organism that results in a new trait is known as a?

6. True or false? Protons are bigger than atoms.

7. True or false? Subatomic particles are found inside atoms.

8. True or false? Nucleon is a collective name for two particles, the neutron and proton.

9. True or false? Neutrons have a negative charge.

10. True or false? An electron has a greater mass than a proton.

Week # 3

1. What is the biggest planet in our solar system?

2. What is the chemical symbol for the element oxygen?

3. Another name for a tidal wave is a?

4. True or false? Dogs are herbivores.

5. What is the 7th element on the periodic table of elements?

6. What is the name of the long appendage that hangs from an elephants face?

7. True or false? DNA is the shortened form of the term 'Deoxyribonucleic acid'?

8. The highest mountain on earth is?

9. What is the name of the closest star to the earth?

10. True or false? Frogs are cold blooded animals.

Week # 4

1. What is the name of the element with the chemical symbol 'He'?

2. The fear of what animal is known as 'arachnophobia'?

3. Pure water has a pH level of a around?

4. The molten rock that comes from a volcano after it has erupted is known as what?

5. True or false? Yogurt is produced by bacterial fermentation of milk.

6. What is the name of the part of the human skeleton which protects our brain?

7. Is the compound 'HCl' an acid or base?

8. True or false? The fastest land animal in the world is the zebra.

9. How many bones do sharks have in their bodies?

10. What famous scientist was awarded the 1921 Nobel Prize in Physics for his work on theoretical physics?

Week # 5

1. True or false? Bases change litmus paper to blue.

2. True or false? Ammonia is an acid.

3. True or false? Properties of acids include being corrosive and having a sour taste.

4. True or false? Sulfuric acid is known as a strong acid.

5. True or false? Base solutions have a pH below 7.

6. True or false? The chemical formula for sulfuric acid is H₂SO₄.

7. True or false? Lemons contain citric acid.

8. True or false? An alkali is an acid.

9. True or false? An anion is an ion with more electrons than protons, giving it a negative charge.

10. True or false? Neutral solutions have a pH of 0.

Week # 6

1. True or false? Acids change litmus paper to red.

2. True or false? The word acid comes from the Latin word acidus (meaning sour).

3. True or false? The chemical formula for sodium hydroxide is NaH.

4. True or false? A cation is an ion with more protons than electrons, giving it a positive charge.

5. True or false? Acetic acid gives vinegar a sour taste and strong smell.

6. True or false? Acid solutions have a pH above 7.

7. True or false? Formic acid is found in bee venom.

8. True or false? Sodium hydroxide is known as a weak base.

9. True or false? DNA is an abbreviation for deoxyribonucleic acid.

10. True or false? Potassium hydroxide contains potassium, oxygen and helium.

Weblink: <https://www.sciencekids.co.nz/quizzes.html>

Math

Week 1

Encircle circle the correct answer.

i. Unit of Ratio

- a. One b. none c. two d. three

ii. If a line segment intersects the two sides of a triangle in the same ratio then it is ___ to the third side.

- a. Parallel b. larger c. Smaller d. Equal

iii. In two similar triangles ___ sides are proportional:

- a. All b. None c. Opposite d. Corresponding

iv. Symbol to show similarity

- a. = b. \approx c. \sim d. \cong

v. Equality of _____ ratios is defined as proportion.

- a. Two b. three c. four d. five

vi. If adjacent of two intersecting lines are congruent , then the line are _____ to each other

- a. Parallel b. perpendicular c. Both d. None

vii. The line segment has only _____ point of bisection.

- a. Two b. One c. Three d. four

viii. How many lines can be drawn through two points?

- a. 2 b. 4 c. 1 d. 3

ix. The ratio between two quantities a and b is expressed as:

- a. $a+b$ b. $a-b$ c. $a \times b$ d. $a : b$

x. _____ altitudes of equilateral triangle are congruent

- a. Four b. five c. One d. five

Week 2

Encircle the correct answer.

i. A is 40% of B. What percentage is B of A?

- a. 60% b. 140% c. 250% d. 160%

ii. $X + 5 = 10$. Then x equals:

- a. 5 b. 10 c. 15 d. -5

iii. $X^2 + 4x + 3 = 0$; Then x equals:

- a. 2 or 3 b. -1 or -3 c. 1 or 3 d. 5 or -1

- iv. 3, 4, 7, 11,..... next two terms are:
 a. 16, 23 b. 18, 29 c. 17, 24 d. 19, 27
- v. $Y^2 + 4 = 20$. Then y equals:
 a. 4 only b. -4 only c. 4 or -4 d. 16
- vi. The price of an item increases by 20% and then decreases by 20%. So the price has:
 a. Increase by 4% c. Decrease by 4%
 b. Increase by 0% d. Increased by 40%
- vii. The ratio of girls and boys in school is 5 : 7. If there are 525 girls, how many boys are there?
 a. 375 b. 625 c. 735 d. 325
- viii. David and John share \$ 455 in the ratio 2 : 3 respectively. How much money does John get?
 a. \$182 b. \$273 c. \$91 d. \$175
- ix. $X-12y=0$. Then y/x equals:
 a. $1/6$ b. 12 c. $1/12$ d. None
- x. Change $3/20$ into a decimal
 a. 0.3 b. 0.5 c. 0.15 d. 1.5

Week 3

Encircle the correct answer.

- i. Write $68/0.00001$ as an ordinary number.
 a. 6800000 b. 680000 c. 68000 d. 0.00068
- ii. $4 * 4 - 2 * (-3) + 6 = ?$
 a. 17 b. 28 c. -36 d. None
- iii. When you reduce Rs. 80 by 11%, you will get:
 a. Rs. 8.80 b. Rs. 71.20 c. Rs. 69 d. None
- iv. Write 0.67543 correct to 2 significant figures.
 a. 0.68 b. 0.7 c. 0.67 d. 0.70
- v. Simplify $5ab - 7ba + 4ab = ?$
 a. 2ab b. -2ab c. 16ab d. None
- vi. Solve $4(x+2) = 24$
 a. $X = 11/2$ b. $x=4$ c. $x=-4$ d. $x=16$
- vii. The sum of three consecutive even numbers is 222. Find the numbers.
 a. 73, 74, 75 b. 74,74,74 c. 72, 74, 76 d. None

- viii. The gradient of the line joining (-4, -1) and (4, 2) is:
- a. $-\frac{3}{8}$ b. $\frac{3}{8}$ c. 0 d. $\frac{8}{3}$
- ix. The gradient of the line $y = 4-2x$ is :
- a. 4 b. 2 c. -2 d. None
- x. Gradient of the line $x+ 3y= 9$ is
- a. 3 b. $\frac{1}{3}$ c. $-\frac{1}{3}$ d. None

Week 4

Encircle the correct answer.

- i. Find the mean of $x + 77, x + 7, x + 5, x + 3$ and $x - 2$?
- a. $x + 8$ b. $x + 18$ c. $x - 8$ d. $x - 18$
- ii. If the mean of n observations $x_1, x_2, x_3, \dots, x_n$ is \bar{x} then what is $\sum_{i=1}^n (x_i - \bar{x})$?
- a. 0 b. 1 c. 2 d. 3
- iii. If each observation of the data is increased by 5, then what happens to its mean?
- a. is increased by 4 b. is increased by 5
c. is decreased by 4 d. is decreased by 5
- iv. In the class intervals $40 - 50, 50 - 60$, the number 50 is included in which of the following?
- a. $40 - 50$ b. $30 - 40$ c. $50 - 60$ d. $60 - 70$
- v. If the mean of $x, x + 3, x + 5, x + 7$ and $x + 10$ is 9 then what is the means of last three observations?
- a. $9\frac{4}{5}$ b. $10\frac{1}{2}$ c. $11\frac{1}{3}$ d. 12
- vi. If x be the mid-point and 1 be the upper class limit of a class in a continuous frequency distribution. What is the lower limit of the class?
- a. $x - 1$ b. $3x + 8$ c. $2x + 2$ d. $2x - 1$
- vii. The mean of five numbers is 30. If one number is excluded, their mean becomes 28. What is the excluded number?
- a. 38 b. 35 c. 33 d. 36
- viii. What is the median of the data 78, 56, 22, 34, 45, 54, 39, 68, 54, 84?
- a. 54 b. 53 c. 55 d. 51
- ix. Factorize $x^2 + x - 30$:
- a. $(x+5)(x-6)$ b. $(x-5)(x+6)$ c. $(x-6)(x-5)$ d. None
- x. Change 36km/h to meters per second:
- a. 20 b. 10 c. 36 d. None

Week 6**Encircle the correct answers.**

- i. **What is the sum of angles of quadrilaterals?**
a. 90 b. 180 c. 360 d. 270
- ii. **A quadrilateral with only one pair of opposite sides parallel is called**
a. Trapezium b. Square c. Rectangle d. Rhombus
- iii. **The consecutive angles of a parallelogram are**
a. Complementary b. Supplementary c. Equal. d. None of these
- iv. **If in a parallelogram its diagonals bisect each other and are equal then it is a,**
a. Square b. Rectangle c. Rhombus d. Parallelogram
- v. **If in a parallelogram its diagonals bisect each other at right angles and are equal, then it is a**
a. Square b. Rectangle c. Rhombus d. Parallelogram
- vi. **The quadrilateral formed by joining the mid-points of the sides of a quadrilateral ABCD taken in order is a square only if**
a. ABCD is a rhombus
b. Diagonals of ABCD are equal
c. Diagonals of ABCD are equal and perpendicular
d. Diagonals of ABCD are perpendicular
- vii. **Which of the following is not true?**
a. Every square is a rectangle
b. Every rectangle is a quadrilateral
c. Every parallelogram is a trapezium
d. None of these.
- viii. **Which of the following is not true for a parallelogram?**
a. Diagonals bisect each other
b. Opposite sides are equal
c. Opposite angles are equal
d. Opposite angles are bisected by the diagonals
- ix. **What is the measure of an angle whose measure is 32° less than its supplement?**
a. 148° b. 60° c. 74° d. 55°
- x. **If the supplement of an angle is 4 times of its compliment, find the angle.**
a. 60° b. 50° c. 80° d. 100°

WEEK 7

Encircle the correct answer.

- i. The area of a triangle is 150 cm^2 and its sides are in the ratio 3 : 4 : 5. What is its perimeter?
 a. 10 cm b. 30 cm c. 45 cm d. 60 cm
- ii. What is the area of an equilateral triangle with side 2 cm?
 a. $\sqrt{6}\text{cm}^2$ b. $\sqrt{3}\text{cm}^2$ c. $\sqrt{8}\text{cm}^2$ d. 4cm^2
- iii. What is the length of each side of an equilateral triangle having an area of $4\sqrt{3} \text{ cm}^2$?
 a. 4cm b. 5cm c. 7 cm d. 6cm
- iv. The sides of a triangle are 3 cm, 5 cm and 6 cm. What is its area?
 a. $2\sqrt{3}\text{cm}^2$ b. $4\sqrt{14}\text{cm}^2$ c. $5\sqrt{12}\text{cm}^2$ d. $2\sqrt{5}\text{cm}^2$
- v. What is the area of an equilateral triangle with side $\frac{\sqrt{3}}{4}$?
 a. $2/27 \text{ cm}^2$ b. $2/15 \text{ cm}^2$ c. $3/16 \text{ cm}^2$ d. $3/14 \text{ cm}^2$
- vi. The length of one of the equal sides of an isosceles triangle is 4 cm. If it be is 2 cm then what is its area?
 a. $\sqrt{15}\text{cm}^2$ b. $\sqrt{13}\text{cm}^2$ c. $\sqrt{12}\text{cm}^2$ d. $\sqrt{14}\text{cm}^2$
- vii. If the perimeter of an equilateral triangle is 60 cm, then what is its area?
 a. $200\sqrt{2}\text{cm}^2$ b. $100\sqrt{2}\text{cm}^2$ c. $100\sqrt{3}\text{cm}^2$ d. $200\sqrt{3}\text{cm}^2$
- viii. The sides of a triangle are 8 cm, 11 cm and 13 cm. What is its area?
 a. $8\sqrt{30}\text{cm}^2$ b. $4\sqrt{10}\text{cm}^2$ c. $3\sqrt{100}\text{cm}^2$ d. $6\sqrt{200}\text{cm}^2$
- ix. The sides of a triangle are 15 cm, 17 cm and 8 cm. What is its area?
 a. 20cm^2 b. 40cm^2 c. 60cm^2 d. 80cm^2
- x. The sides of a triangle are in the ratio of 3 : 4 : 5. If its perimeter is 36 cm, then what is its area?
 a. 32 cm^2 b. 54 cm^2 c. 67 cm^2 d. 72cm^2

WEEK 8

Encircle the correct answer.

- i. What is the total surface area of a hemisphere of radius r ?
 a. $4\pi r^2$ b. πr^2 c. $2\pi r^2$ d. $3\pi r^2$
- ii. If the radius of a sphere is doubled, then what is the ratio of their surface area?
 a. 1 : 2 b. 2 : 1 c. 1 : 4 d. 4 : 1

- iii. Two right circular cones of equal curved surface areas have slant heights in the ratio of 3 : 5. Find the ratio of their radii.
- a. 4 : 1 b. 3 : 5 c. 5 : 3 d. 4 : 5
- iv. In the cylindrical container, the base radius is 8 cm. If the height of the water level is 20 cm, find the volume of the water in the container.
- a. 5.6721 l b. 4.0218 l c. 3.8925 l d. 4.97 l
- v. A well with 10 m inside diameter is dug 14m deep. Earth taken out of it is spread all around it to make an embankment of height $4\frac{2}{3}$ m. Find the width of the embankment.
- a. 5 m b. 4 m c. 4.3 m d. 6 m
- vi. The angle subtended by the diameter of a semicircle is:
- a. 45° b. 180° c. 90° d. 60°
- vii. In the figure, if O is the centre of the circle, then the measure of x is:
- a. 40° b. 80° c. 50° d. 110°
- viii. What is the supplement of 105°
- a. 65° b. 75° c. 85° d. 95°
- ix. If $\angle S$ and 100° form a linear pair. What is the measure of $\angle S$
- a. 180° b. 120° c. 90° d. 80°
- x. Find the angle which is four times its complement is 10° less than twice its complement
- a. 15° b. 10° c. 25° d. 5°

Useful Links are given below:

<https://fgstudy.com/quiz/9th-class-math-mcqs-online-test-chapter-wise>

<https://www.proprofs.com/quiz-school/story.php?title=mathematics-quiz-grade-9>
<https://www.careerlauncher.com/cbse-ncert/class-9/Math/MCQ.html>