



Summer Vacations Homework - 2020

Class : 9th

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 August 2020. Therefore, we are pleased to share our plans for online instructions and homework activities.

As of 20th July till August 30th , we will continue with our 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	
	Wednesday – Day 3	1100 – 1140	Urdu	
II	Thursday - Day 4	1200 -1240	Chemistry	
	Friday – Day 5	0900 – 0940	Computer/ Biology	
		1000 – 1040	Maths	
	Saturday – Day 6	1100 – 1140	Islamiat/Naazra	
		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	3	9
2	Biology	10	19
3	Computer	20	35
4	English	36	48
5	Physics	49	61
6	Chemistry	62	70
7	Pakistan Studies	71	76
8	Urdu	77	80
9	Islamiat	81	84
10	General Knowledge	85	100

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

Mathematics Week 1

<u>Days</u>	<u>Units</u>	<u>Topic</u>	<u>Activity</u>
1 2 3	Chapter 8 th	Linear Graphs and Their Applications https://www.youtube.com/watch?v=8lydtW6yM_U https://www.youtube.com/watch?v=RO84-chMlp0 https://www.youtube.com/watch?v=64kqR_zu8mM https://www.youtube.com/watch?v=ozdTT9H8YMA https://www.youtube.com/watch?v=2joy_Ckx3EA https://www.youtube.com/watch?v=qd9pRMV711I https://www.youtube.com/watch?v=1Trnied8AKo	Book (Ex 8.1, 8.2, 8.3)

Week 1 Day 1

Cartesian plane

Concept of Linear Graphs

Questions:

Determine the quadrant of the coordinate plane in which the following points lie:

$P(-4, 3)$, $Q(-5, -2)$, $R(2, 2)$ and $S(2, -6)$.

Draw the graph of each of the following:

$$y = 0$$

$$\frac{1}{2} = x$$

$$-y = 2x$$

$$3x - 2y + 1 = 0$$

$$2x - 2y = 0$$

Find the value of m and c of the following lines by expressing them in the form $y = mx + c$.

$$2x + 3y - 1 = 0$$

$$2x - y = 7$$

$$3 - 2x + y = 0$$

Day 2

Introduction

Drawing a graph from a given table of discrete tables

Conversion Graphs

Questions:

Sketch the Graphs

$$F = \frac{9}{5}C + 32$$

$$\text{One Rupee} = \frac{1}{86} \$.$$

Day 3

Graphical solution of linear equations in two variables

Questions:

Solve the following equations graphically

$x + y = 0$ and $2x + y - 3 = 0$.

$2x + y - 1 = 0$ and $x = -y$.

$x + y = 0$ and $2x + y - 3 = 0$.

$2x + y - 1 = 0$ and $x = -y$.

Activity Links

<https://www.ilmkidunya.com/online-test/9th-class-kpk-boards-mathematics-chapter-8-english-medium-mcqs>

<https://sabaq.pk/chapter-page.php?vg=federal-math-9th&vsg=federal-math-9th-8>

Worksheet No 1 (Week 1)

Question: Four possible answers are given for each question. Tick the correct one.

A Cartesian plane establishes _____ correspondence between the set of ordered pairs and the points of the Cartesian plane.

(a) Onto (b) One-to-One (c) Bijjective (d) None of these

If $m = -1$ then line is the graph of the equation _____.

(a) $y = -x$ (b) $y = x$ (c) $y = 1/x$ (d) $y = -1/x$

One Mile is equal to _____ (approximately).

(a) 1.6 km (b) 1.4 km (c) 1.7 km (d) 1.5 km

Which ordered pair satisfies the equation $y = 2x$?

(a) (1,2) (b) (2,1) (c) (2,2) (d) (0,1)

If $y = 2x - 1$, $x = -2$ then y is

(a) 3 (b) -3 (c) -5 (d) 5

Mathematics Week 2

<u>Days</u>	<u>Units</u>	<u>Topic</u>	<u>Activity</u>
1 2 3	Chapter 9th	Introduction to Coordinate Geometry https://www.youtube.com/watch?v=ZyToVUvT23Q https://www.youtube.com/watch?v=Gdua_3y-eL0 https://www.youtube.com/watch?v=3ESYGLv46Co https://www.youtube.com/watch?v=Aqfh0lwc_rg	Book (Ex 9.1, 9.2, 9.3)

Day 1

Distance Formula

Question:

Find the distance between following pairs of points

$A(9,2)$, $B(7,2)$

$A(0,0)$, $B(0,5)$

Day 2

Collinear Points

Question:

Use distance formula to verify that the points $A(0, 7)$, $B(3, -5)$, $C(-2, 15)$ are collinear. Show that the points $A(-6, -5)$, $B(5, -5)$, $C(5, -8)$ and $D(-6, -8)$ are vertices of a rectangle. Find the lengths of the diagonals. Are they equal?

Day 3

Mid-Point Formula

Question:

Show that the diagonals of the parallelogram having vertices $A(1, 2)$, $B(4, 2)$, $C(-1, -3)$ and $D(-4, -3)$ bisect each other.

[Hint: The mid-points of the diagonals coincide]

Activity Links

<https://www.ilmkidunya.com/online-test/9th-class-kpk-boards-mathematics-chapter-9-english-medium-mcqs>

<https://sabaq.pk/chapter-page.php?vg=federal-math-9th&vsg=federal-math-9th-9>

Worksheet No 2 (Week 2)

Question: Four possible answers are given for each question. Tick the correct one.

The study of geometrical shapes in a plane is called _____ geometry.
Coordinate (b) Point (c) Plane (d) Line

If measures of all the three sides are different then a triangle is called a _____ triangle.
(a) Right Angle (b) Scalene (c) Isosceles (d) Equilateral

Distance between the points $(1, 0)$ and $(0, 1)$ is:
0 (b) 1 (c) $\sqrt{2}$ (d) 2

Mid-point of the points $(2, 2)$ and $(0, 0)$ is:
(a) $(1, 1)$ (b) $(1, 0)$ (c) $(0, 1)$ (d) $(-1, -1)$

A line segment _____ end point.
(a) 1 (b) 2 (c) 0 (d) 3

Mathematics Week 3

Days	Units	Topic	Activity
1	Chapter 10	Congruent Triangles	Book (Ex 10.1 along with theorems and examples)
2		https://www.youtube.com/watch?v=DNsl-yqCf3Mww	
3		https://www.youtube.com/watch?v=Rf-vBQ63mOI https://www.youtube.com/watch?v=u2VWVhGtj44 https://www.youtube.com/watch?v=7pdXm9pt_KM https://www.youtube.com/watch?v=oMniUSJQHjw	

Day 1

Congruent Triangles

Question:

In any correspondence of two triangles, if one side and any two angles of one triangle are congruent to the corresponding side and angles of the other, then the triangles are congruent. ($A.S.A \cong A.S.A$)

Day 2

Congruent Triangles

Question:

In a triangle ABC , the bisectors of $\angle B$ and $\angle C$ meet in a point I . Prove that I is equidistant from the three sides of $\triangle ABC$.

Day 3

Congruent Triangles

Question:

If two angles of a triangle are congruent then the sides opposite in them are also congruent.

Activity Links

<https://sabaq.pk/chapter-page.php?vg=punjab-math-9th&vsg=punjab-math-9th-10>

[Important Questions from Theorem Exercises Unit 10-16](#)

Mathematics Week 4

<u>Days</u>	<u>Units</u>	<u>Topic</u>	<u>Activity</u>
1 2 3	Chapter 10	Congruent Triangles https://www.youtube.com/watch?v=5D_y78VbOQE https://www.youtube.com/watch?v=J1-YwoAhr_k	Book (Ex 10.2 along with theorems and examples)

Day 1

Congruent Triangles

Question:

Prove that any two medians of an equilateral triangle are equal in measure.

Day 2

Congruent Triangles

Question:

If one angle of a right triangle is 30° , the hypotenuse is twice as long as the side opposite to the angle.

Day 3

Congruent Triangles

Question:

In a correspondence two triangles, If three sides of one triangle are congruent to the corresponding three sides of the other, then the two triangles are congruent. ($S.S.S \cong S.S.S$).

Activity Links

https://www.mathcity.org/matric/9th_science

<https://sabaq.pk/chapter-page.php?vq=federal-math-9th&vsq=federal-math-9th-10>

Mathematics Week 5

Days	Units	Topic	Activity
1	Chapter 10	Congruent Triangles	Book (Ex 10.3 and 10.4 along with theorems and examples)
2		https://www.youtube.com/watch?v=XykXlliPRVo	
3		https://www.youtube.com/watch?v=hfSDijmkuF4 https://www.youtube.com/watch?v=s0GhD8t3ln4 https://www.youtube.com/watch?v=var9eOq6WKw	

Day 1

Introduction

Congruent Triangles

Question:

Prove that median bisecting the base of an isosceles triangle bisects the vertex angle and it is perpendicular to the base.

Day 2

Introduction

Congruent Triangles

Question:

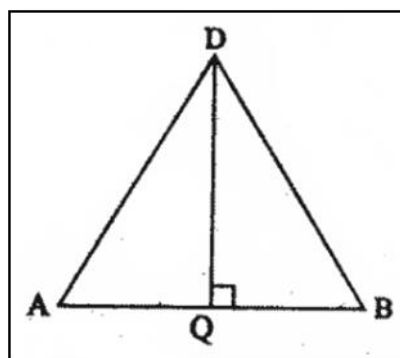
If in the corresponding of the two right angled triangles, the hypotenuse and one side of one triangle are congruent to the hypotenuse and the corresponding side of the other, then the triangles are congruent. ($H.S \cong H.S$).

Day 3

Congruent Triangles

Question:

In triangle $\triangle ABD$ of a figure, $\overline{DQ} \perp \overline{AB}$ and $\overline{DA} \cong \overline{DB}$, prove that $\overline{AQ} \cong \overline{BQ}$ and $\angle ADQ \cong \angle BDQ$.



Activity Links

https://www.mathcity.org/matric/9th_science

<https://sabaq.pk/chapter-page.php?vq=federal-math-9th&vsq=federal-math-9th-10>

Worksheet No 3 (Week 3, 4 and 5)

Topic: Congruent Triangles

Question: Four possible answers are given for each question. Tick the correct one.

The symbol used for one to one correspondence is:

- (a) \leftrightarrow (b) \rightarrow (c) \leftarrow (d) \updownarrow

If one angle of a right angled triangle is _____, the hypotenuse is twice as long as the side opposite to the angle.

- (a) 45° (b) 60° (c) 30° (d) None

If the bisector of an angle of a triangle bisects the side opposite to it, the triangle is:

- (a) Equilateral (b) Isosceles (c) Right angled (d) Scalene

Two parallel lines intersects at _____ points.

- (a) One (b) Does not intersect (c) Two (d) Three

If two angles of a triangle are congruent, then the sides opposite to them are:

- (a) Congruent (b) Parallel (c) Perpendicular (d) None

Mathematics Week 6

<u>Days</u>	<u>Units</u>	<u>Topic</u>	<u>Activity</u>
1 2 3	Chapter 11	Concepts of Parallelogram https://www.youtube.com/watch?v=lleSLqrKB-8 https://www.youtube.com/watch?v=NxuDj9xdjeQ	Book (Ex 11.1 and 11.2 along with theorems and examples)

Day 1

Introduction

Concepts of Parallelograms

Question:

In a parallelogram

Opposite sides are congruent

Opposite angles are congruent

The diagonals bisect each other.

Day 2

Introduction

Concepts of Parallelograms

Question:

One angle of a parallelogram is 130° . Find the measure of its remaining angles.

Day 3

Question:

Prove that a quadrilateral is a parallelogram if its opposite sides are congruent.

Activity Link

<https://sabaq.pk/chapter-page.php?vg=federal-math-9th&vsg=federal-math-9th-11>

Worksheet No 4 (Week 6)

Topic: Parallelograms and Triangles

Question: Four possible answers are given for each question. Tick the correct one.

In a parallelogram _____ are congruent.

- (a) All sides (b) Opposite sides (c) All angles (d) None of these

The line segments, joining the mid-points of the side of a quadrilateral, taken in order, form a _____.

- (a) Rectangle (b) Square (c) Triangle (d) Parallelogram

Medians of a triangle are:

- (a) Concurrent (b) Parallel (c) Perpendicular (d) None of these

Diagonal of a parallelogram divides the parallelogram into two _____ triangles.

- (a) Equilateral (b) Isosceles (c) Right angled (d) Congruent

If two opposite sides of a quadrilateral are congruent and parallel, it is a _____.

- (a) Square (b) Triangle (c) Rectangle (d) None of these

Biology

Week 1

Topic/s: Pg # 117-121	7.1 Bioenergetics And The Role Of ATP 7.2 Photosynthesis 7.2.1 Mechanism Of Photosynthesis
Textbook Reading:	<ul style="list-style-type: none"> • Read Bioenergetics And The Role Of ATP given on pg no.117-120, It gives an insight on the energy relationships and energy transformations in living things and HOW ATP is called the cell's energy currency. This link can help in better understanding of this concept:- https://youtu.be/Gnk_IActgM • Read Photosynthesis on pg no.120-121. It outlines the mechanism of photosynthesis. This link can help in better understanding of this concept:- https://youtu.be/9OUyh99sIT0 • Read Mechanism of Photosynthesis on pg no.121-122. It explains how aerobic and anerobic respiration takes place. This link can help in better understanding of this concept:- https://youtu.be/9OUyh99sIT0
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 121,122 and 123(T. Bk)

Daily worksheets

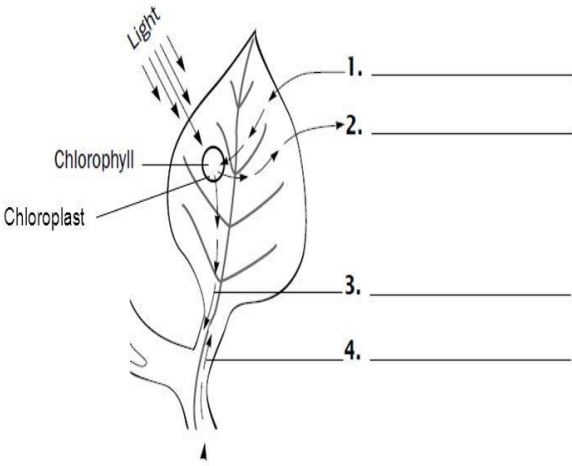
Day 1

Additional short questions:	Define Bioenergetics. Discuss energy transformations in living organisms. What are redox reactions. Why ATP is called cell's energy currency?
Diagram/s:	<pre> graph TD A[Reduction of CO2 to C-H-O (foodstuff)] --> B[Oxidation of foodstuff to release energy] C[Input of energy (light/radiant energy)] --> A B --> D[Storage of energy in the formation of ATP ADP + Pi -> ATP] B --> E[Heat] D --> F[Transformation of energy (stored in ATP) to perform work] F --> G[Active transport] F --> H[Maintenance] F --> I[Chemical synthesis] G --> J[Heat] H --> K[Heat] I --> L[Heat] </pre>

Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes and practice tests:- Link: https://classnotes.xyz/class-9-fbise-biology-notes-bioenergetics-notes/ https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-7
Written Work	• Answer the provided additional short questions and practice diagram included in this topic. (Text Book)

Day 2 & 3

Photosynthesis (Pg#120-121)

Additional short questions:	• Answer the given short questions. Q1. Define Photosynthesis Redox reaction Q2. How many forms of energy in living organisms exists? Q3. Outline process involved in photosynthesis.
Web Organizer:-	<div style="text-align: center;"> <h1>Photosynthesis</h1> </div> <p>Label the diagram:</p> <ul style="list-style-type: none"> • Carbon Dioxide • Glucose • Oxygen • Water 

Week 2

Topics:122-130	7.2.2 Role Of Chlorophyll And Light 7.2.3 Limiting Factors In Photosynthesis 7.3 Respiration
Textbook Reading:	<ul style="list-style-type: none"> • Read Role of Chlorophyll and Light on page no. 122-123.It gives you detailed account of photosystem and limiting factors. This link can help in better understanding of this concept:- https://youtu.be/jlHFChEbRTw • Read Limiting Factors In Photosynthesis on page no. 124. It gives you detailed account of factors such as temperature and carbon dioxide intensity. https://youtu.be/iohAUk4U9RM • Read Respiration on page no.130 .It will explain its phenomena in detail. This link can help in better understanding of this concept:- https://youtu.be/GhbBJFWogK4
Written Work	• Solve the work sheets provided, Also practice sketching neat labelled diagrams included in above mentioned topics .

Daily worksheets

Day 1

Role of Chlorophyll And Light:

Additional short questions:	What is the function of chlorophyll in photosynthesis? What is the effect of CO ₂ in Photosynthesis Define Limiting factor. Cellular respiration.
Notes/ assessment/ link :-	Self Daily Follow these links to develop better concept through precise notes and practice tests:- https://www.freeilm.com/9th-biology-ch-07-short-long-mcqs/
Written Work	<ul style="list-style-type: none"> • Write answers of the provided additional short questions. • Write in detail the ROLE OF CHLOROPHYLL AND LIGHT.

Day 2 &3

Limiting Factors In Photosynthesis and Respiration:

Additional short questions:	Describe limiting factor in photosynthesis. How leaf is structurally adapted for photosynthesis. There is more chlorophyll in plastid mesophyll than in spongy mesophyll. Why? Define Respiration.
Diagrams:	

Notes/ assessment/ Daily link :-	Self Follow these links to develop better concept through precise notes and practice. https://classnotes.xyz/class-9-fbise-biology-notes-bioenergetics-notes/
Written Work	<ul style="list-style-type: none"> • Write answers of the provided additional short questions. • practice diagrams with labeling on Pg # .125 • Write a note on limiting factor.

Week 3

Topic/s:130-133	7.3.1 Aerobic And Anaerobic Respiration 7.3.2 Mechanism Of Respiration 7.3.3 The Energy Budget Of Respiration
Textbook Reading:	<ul style="list-style-type: none"> • Read Aerobic And Anaerobic Respiration on page no. 130-131. It will explain these two type of respirations occur. This link can help in further to clear the concepts:- https://youtu.be/sv74wDB6Qg0 • Read Mechanism Of Respiration on pg no 132. It explains its whole phenomenon in detail. This link can help in further to clear the concepts:- https://youtu.be/Pg1h_suxnNw • Read The Energy Budget Of Respiration on page no.133 . It explains the whole phenomenon in detail. This link can help in further to clear the concepts:- https://youtu.be/FcsWAKc1B08
Written Work	<ul style="list-style-type: none"> • Solve work sheets provided, Also practice sketching neat labelled diagram on Pg no 133.

Daily worksheets

Week 3 Day 1

Aerobic And Anaerobic Respiration

Additional short questions:	In cellular respiration how food is oxidized and reduced. Name the steps involved in respiration, How many energy molecules are produced in aerobic and anerobic respiration.
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Diagram:-	<p>The diagram illustrates the three main stages of cellular respiration:</p> <ul style="list-style-type: none"> Glycolysis: Glucose is converted into 2 Pyruvic acid. This process produces ATP and NADH. It involves the conversion of ADP to ATP and NAD⁺ to NADH, with Coenzyme A (Coenzyme A) acting as a catalyst. Krebs cycle: Acetyl CoA enters the cycle, which releases CO₂ and produces ATP, NADH, and FADH₂. Similar to glycolysis, it involves the conversion of ADP to ATP and FAD to FADH₂, with Coenzyme A (Coenzyme A) as a catalyst. Electron Transport Chain: NADH and FADH₂ from the previous stages enter the chain. In the presence of O₂, they are oxidized to NAD⁺ and FAD, while O₂ is reduced to H₂O. This stage produces a large amount of ATP. <p>Figure 7.12: Mechanism of respiration</p>
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Notes/ assessment/	Self Follow these links to develop better concept through video tutorials, precise notes and practice tests:-
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Daily link :-	https://youtu.be/CVBMqjllf_A https://youtu.be/2f7YwCtHcgk
Written Work	<ul style="list-style-type: none"> • Write down the both types of respiration • Answer the provided additional short questions.

Day 2 &3

•**Draw a labelled diagram showing mechanism of respiration.**

Link https://youtu.be/De_MTilcneU

Week 4

Topic/s:137-138	•Review Questions Multiple choice Understanding the concepts Short questions
Textbook Reading:	<ul style="list-style-type: none"> • Read Multiple choice questions , understanding the concepts and short questions given on page. 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://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-7</p>
Written Work	Answer the given review questions in exercise. Day 1: Multiple choice Day 2: Understanding the concepts Day 3:Short Questions

Week 5

Topic/s:140-152	8.1 MINERAL NUTRITION IN PLANTS 8.2 COMPONENTS OF HUMAN FOOD 8.2.1 EFFECTS OF WATER AND DIETARY FIBRE
Textbook Reading:	<ul style="list-style-type: none"> • Read MINERAL NUTRITION IN PLANTS on page no.140-142 . It explains macro and micronutrients in detail. This link explains the concept in an enlightening manner:- https://youtu.be/jY_M19e2eyg • Read COMPONENTS OF HUMAN FOOD on page no. 143-147It explains carbohydrates, proteins and lipids in detail. This link explains the concept in an enlightening manner:- https://youtu.be/oFNAn1lb3JM • Read EFFECTS OF WATER AND DIETARY FIBRE on page no.150-152 . It explains importance of water, soluble and insoluble dietary fibre in detail. This link explains the concept in an enlightening manner:- https://youtu.be/ox028Oqq27g
Written Work	• Solve the work sheets provided, Also practice table on page no 140,141,144 and 146.

Daily worksheets

Week 5 Day 1

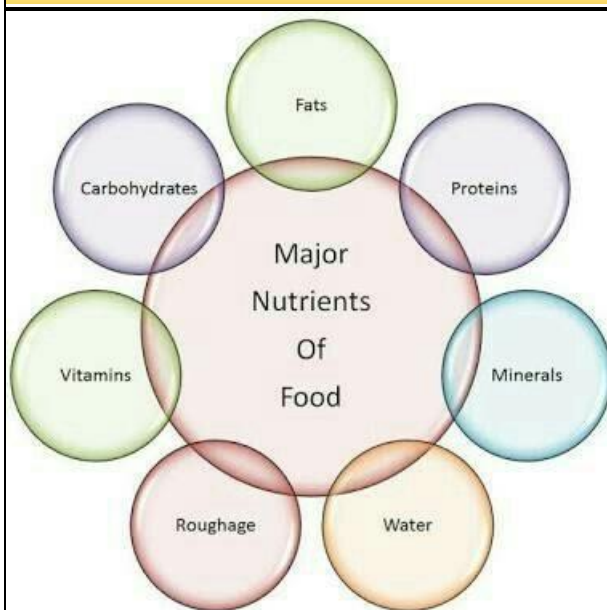
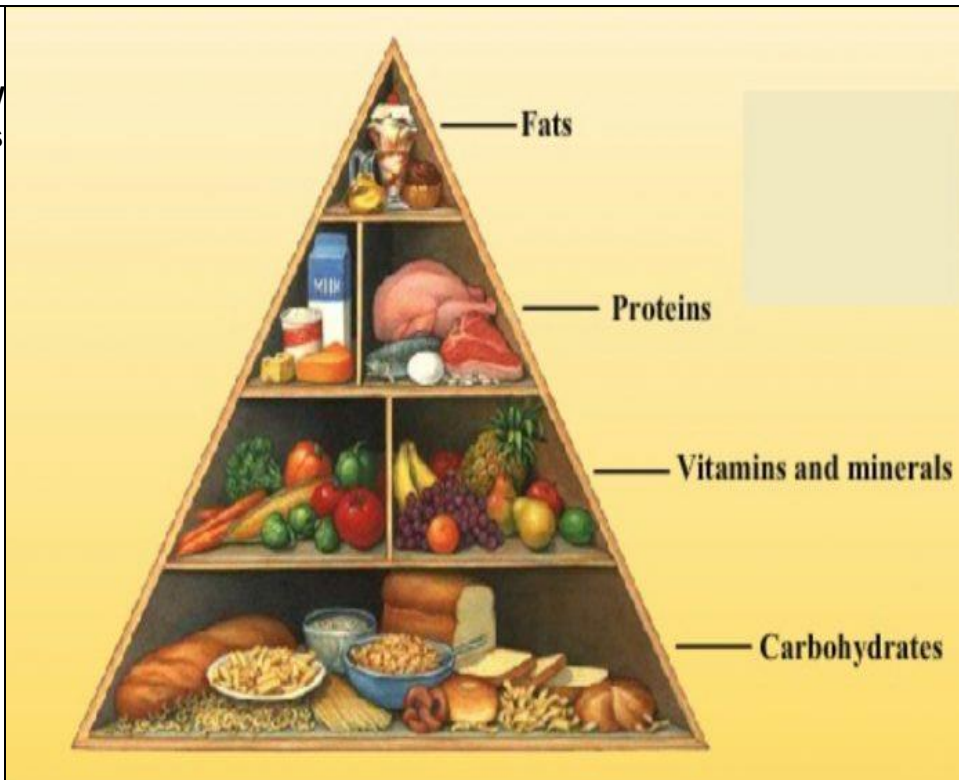
Mineral Nutrition in Plants

Additional short questions:	<p>Q1. Answer the following questions.</p> <p>Define nutrition and nutrients. How autotrophic and heterotrophic organisms obtain their nutrients? How nutrition is essential for several purposes?</p> <p>Q2.M.C.Q</p> <p>1.Nutrients that are required by plants in large quantities are considered as: Macronutrients</p> <ul style="list-style-type: none"><input type="radio"/> Mega nutrients<input type="radio"/> Chemical nutrients<input type="radio"/> Micronutrients <p>2.Boron is a vital trace mineral that benefits the normal growth and health of the body. The function of boron is: Nitrogen fixation</p> <ul style="list-style-type: none"><input type="radio"/> Cell division<input type="radio"/> Insulin production<input type="radio"/> None of these <p>3.Opening and closing of stomata in plants is done with the help of which one of the following mineral? P</p> <ul style="list-style-type: none"><input type="radio"/> K<input type="radio"/> N<input type="radio"/> Mg
Written Work	<ul style="list-style-type: none">• Describe mineral nutrition in detail.• write answers of the additional short questions and M.C.Q. <p>Link: https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-8</p>

Week 5 Day 2

Components of human food:

Web Organizer/
flow sheets/
key points
with
Diagrams :-



Notes/ Self assessment/ Daily link :- Follow these links to develop better concept through precise notes and practice tests:-
<https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-8>

Written Work Practice all tables and diagrams included in this topic.
Do written practice of this topic.

Week 5 Day 3

Effects of water and dietary fiber:

Additional short questions:	<ul style="list-style-type: none">• Define the following terms <ol style="list-style-type: none">1. Why are water and dietary fibre considered important in our diets?2. What is the function of dietary fibre, Isapghol husk?
Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes, video tutorials and practice tests:- https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-8
Written Work	<ul style="list-style-type: none">• Describe the effects of water and dietary fibre.• Answer the provided additional short questions.

Week 6

Topic/s:151-164	8.2.2 BALANCED DIET 8.2.3 PROBLEMS RELATED TO NUTRITION (MALNUTRITION) 8.3 DIGESTION IN HUMAN
Textbook Reading:	<ul style="list-style-type: none">• Read BALANCED DIET on page no.151-153 . It explains relation of diet with gender and activity. This link explains the concept in an enlightening manner:- https://youtu.be/hDHGiw230ck• Read PROBLEMS RELATED TO NUTRITION on page no.153-156 It explains diseases which occurs due to malnutrition. This link explains the concept in an enlightening manner:- https://youtu.be/qgv-2BPrr0E• Read DIGESTION IN HUMAN FIBRE on page no.157-164 . It explains the mechanism of digestion in detail. This link explains the concept in an enlightening manner:- https://youtu.be/yQvJH1_S2AU
Written Work	• Solve the work sheets provided, Also practice 158,159 and 160-163.

Daily worksheets


Week 6 Day 1

Balanced diet

Additional short questions:	<u>Q1. Answer the following questions.</u> What is a balanced diet? How would you related balanced diet with sex and activity?
Written Work	<ul style="list-style-type: none">• Discuss important minerals in Balanced diet.• Write answers of the additional short questions. Link: https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-8

Web Organizer/
flow sheets/
key points
with
Diagrams :-


Kwashiorkor



“Kwashiorkor is caused by inadequate amount of proteins in the body. This disease is usually found in countries where good food is not readily available.”

For More Information,
Visit: www.epainassist.com

Marasmus



It is an extremely severe type of nutrition disorder in which there is significant wasting of fats, muscles, and tissues of the body.

Some of the Risk Factors for Marasmus are-

- 1) Chronic starvation
- 2) Adulterated water
- 3) Inadequate food intake
- 4) Vitamin deficiencies.

[ePainAssist.com](http://www.epainassist.com)

Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes and practice tests:- https://sabaq.pk/chapter-page.php?vg=federal-biology-9th&vsg=federal-biology-9th-8
Written Work	Practice these questions. Describe problems related to nutrients. Describe effects of malnutrition.

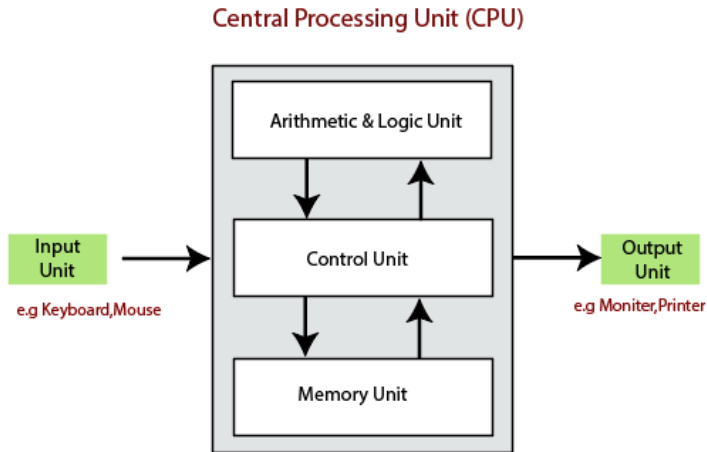
Week 6 Day 3 **Digestion in Human**

Additional short questions:	1. Enlist responsibilities of digestive system. 2. What is appendix? 3. What is peristalsis?
Notes/ Self assessment/ Daily link :-	Follow these links to develop better concept through precise notes, video tutorials and practice tests:- https://classnotes.xyz/class-9-fbise-biology-notes-nutrition-notes/
Written Work	• Explain role of liver in Digestion.

Computer Science

Week 1 Day 1

Q- Write the definition of CPU? How control Unit and CPU perform their functions in computer system?



Ans:

Definition of CPU:

CPU	CU
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Video Link: https://www.youtube.com/watch?v=I_I4Fb7HCh4

Week 1 Day 2

Q. Explain the 1st Generation of computer in detail with the help of diagram.

Vacuum Tubes



Ans:

Sr#	Detail
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Video Link: <https://www.youtube.com/watch?v=ZWYOjLEKw1w>

Week 1 Day 3

Q- Write a detail note on 2nd generation of computer. Which processing part is different from 1st Generation computer used in 2nd generation of computer?



Ans:

Sr#	Detail
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Video Link: <https://www.youtube.com/watch?v=vZp02MEE6uE>

Week 2 Day 1

Q- Explain the difference between 3rd and 4th generation of computer.



Points	3 rd Generation of computer	4 th Generation of computer
Duration		
Developed by:		
Technology used:	<ol style="list-style-type: none"> 1. 2. 	<ol style="list-style-type: none"> 1. 2.
Usage :	<ol style="list-style-type: none"> 1. 2. 	<ol style="list-style-type: none"> 1. 2.
Speed :		
Size of computer:		
Example:		

Video Link: <https://www.youtube.com/watch?v=su-Rmtr9aBc>

Video Link: <https://www.youtube.com/watch?v=L1YRrn54l-8>

Week 2 Day 2

Q. Write a detail note on Fifth generation of computer?



Ans:

Sr#	Detail
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Video Link: <https://www.youtube.com/watch?v=xDWJxUb1-tw>

Week 2 Day 3

Q: Write the difference between computer components (Computer software and Computer hardware)?

Ans: Computer Software:

Definition :

Names:

1:

2:

Detail : 1:

Detail : 2.

Computer hardware:

Definition :

Names:

1:

2:

Detail : 1:

Detail : 2.

Video links: <https://www.youtube.com/watch?v=A1LwJRYiaho>

Video links: <https://www.youtube.com/watch?v=5SfBrazwnSA>

Week 3 Day 1

Q: What is the difference between input and output devices?

Input devices	Output devices
Definition :	Definition :
Types of input devices:	Types of output devices:
Write the detail about any three input devices:	Write the detail about any three output devices:

Video links: <https://www.youtube.com/watch?v=ooPpPVGDOkA>

Week 3 Day 2

Q: What is monitor? Explain types of monitor with the help of diagram.

Ans:

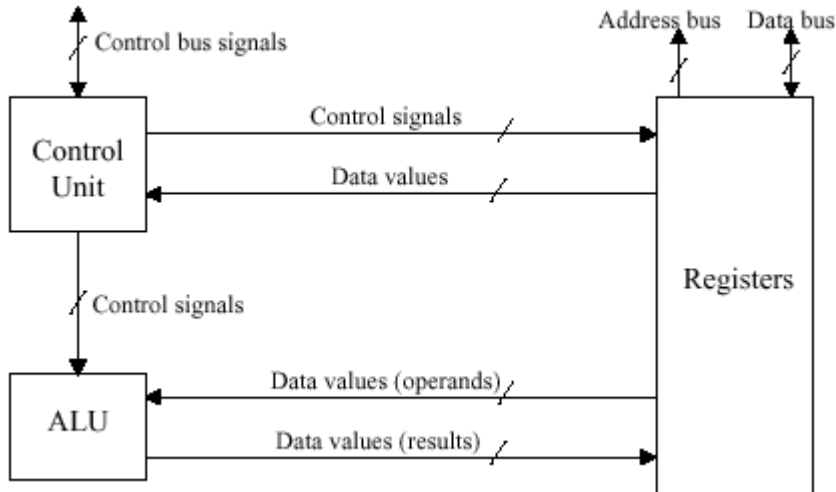
Definition:	
Types of monitor	

Video links: <https://www.youtube.com/watch?v=NNdw8if2hmk>

Week 3 Day 3

Q: What is system bus? How buses perform their functions?

Ans:



Ans:

System Bus:

Data bus

Address bus

Control bus

Video link: <https://www.youtube.com/watch?v=3f6oN42RamM>

Week 4 Day 1

Q. Write a brief note on following input devices.

Ans:

	Devices	
	Mouse	
	Scanner	
	Trackball	
	Joystick	

Video link: <https://www.youtube.com/watch?v=uDKBq-3HDUo>

Week 4 Day 2

Q: Write a brief note on following output devices.

Ans:

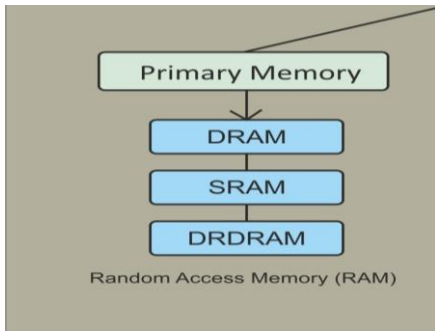
Ser	Device	Details
1	Monitor	
2	Printer	
3	Speaker	

4	Touch Screen	

Video link: <https://www.youtube.com/watch?v=GY3nko24TWA>

Week 4 Day 3

Q: What is Random Access Memory? Write down the types of RAM in detail.



Definition :

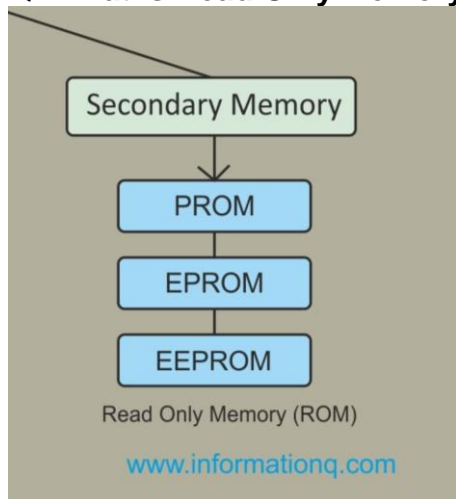
Types of RAM:

	DRAM	DRDRAM

Video link: <https://www.youtube.com/watch?v=Gby88M5EO-0>

Week 5 Day 1

Q: What is Read Only Memory? Write down the types of ROM in detail.



Definition :

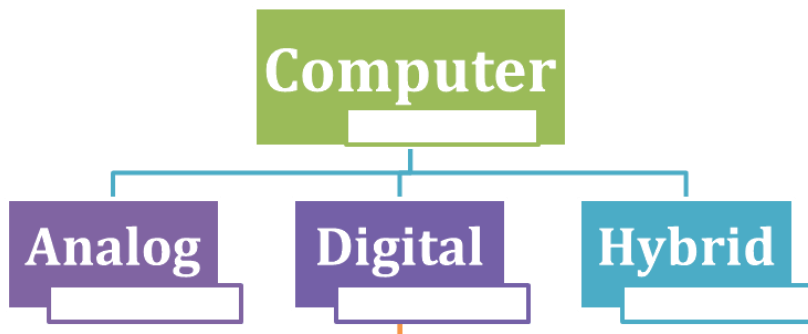
Types of ROM:

PROM	EPROM	EEPROM
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6

Video link: <https://www.youtube.com/watch?v=UZb00BiIP0Q>

Week 5 Day 2

Q: Write down the types of computer in detail.



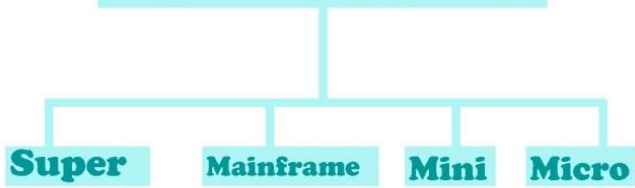
Analog Computer	Digital Computer	Hybrid Computer
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Video link: <https://www.youtube.com/watch?v=oTdehJEvcl4>





Week 5 Day 3

Q: Write down the classification of computer in detail.

Digital computer



Ans:

	Names	Detail
1		
2		
3		
4.		

Video link: [Classification of Computer](#)

Week 6 Day 3

Q1: What is language translators? Write the difference between Interpreter and Compiler in detail?

Language Translators:

Interpreter:

Compiler:

Video link: [language translators](#)

English

Week 1 Day 1

Grammar:

Topic: Tenses

Video Link: <https://www.youtube.com/watch?v=U9pwWLYUf6w>

Activity: Dear students watch the video lecture carefully and make a graph of the tenses.

WORKSHEET:

12 Types of Tenses Chart

	Simple	Continuous	Perfect	Perfect Continuous
Past	Simple Past	Past Continuous	Past Perfect	Past Perfect Continuous
Present	Simple Present	Present Continuous	Present Perfect	Present Perfect Continuous
Future	Simple Future	Future Continuous	Future Perfect	Future Perfect Continuous

Week 1 Day 2

Grammar:

Topic: Present Indefinite/ Simple Tense

Video Link: <https://www.youtube.com/watch?v=nGBgO-L6gig>

https://www.youtube.com/watch?v=EHnLw_W5RsY

Activity: Dear students watch the video lecture carefully and solve the given worksheet

Worksheet:

SIMPLE PRESENT TENSE



Name: _____

1.	My friend _____ me. (help)
2.	I _____ late on Saturday. (sleep)
3.	He _____ to beach every weekend. (go)
4.	They _____ to college daily. (go)
5.	Kids do not _____ the medicines. (like)
6.	Do you _____ some help? (need)
7.	Does he _____ to take admission in college? (want)
8.	Does David _____ game properly? (play)
9.	Do you _____ to play chess? (like)
10.	She _____ how to speak Spanish. (know)
11.	I _____ towards my home after walking. (move)
12.	He _____ to participate in extra curricular activities. (want)
13.	The patient _____ medicines on time. (take)
14.	I _____ exercise regularly. (take)
15.	She _____ her children too much. (love)

Week 1 Day 3

Grammar:

Topic: Past Indefinite/ Simple Tense

Video Link: <https://www.youtube.com/watch?v=ZMu0719daf0>
<https://www.youtube.com/watch?v=V5OL4QHI6GY>

Activity: Dear students watch the video lecture carefully and solve the given worksheet

Worksheet:

NAME: _____ DATE: _____

GRAMMAR WORKSHEET

PAST SIMPLE

Positives, Negatives and Questions



- Write the sentences below in the past simple.

1. He goes to bed early. He went to bed early.
2. We don't like onions. We didn't like onions.
3. Stewart lives in Vancouver. _____
4. Does she exercise? _____
5. I hate cooking. _____
6. They play video games. _____
7. He knows the answer. _____
8. I forget his name. _____
9. They don't study history. _____
10. Do they drive? _____
11. Jenny works at a hotel. _____
12. Do you swim? _____
13. We don't like the movie. _____
14. Where do you live? _____
15. They don't drink tea. _____
16. They start class at 8:00. _____
17. Does he eat breakfast? _____
18. I don't run fast. _____
19. He has a car. _____
20. Do you enjoy sports? _____

Week 2 Day 1

Grammar:

Topic: Future Indefinite/ Simple Tense

Video Link: <https://www.youtube.com/watch?v=CzqWgij6Yk8>
<https://www.youtube.com/watch?v=vZyw8TyPMfc>

Activity: Dear students watch the video lecture carefully and solve the given exercise

Worksheet:

Put the verbs into the correct form (future I simple).

Ali asked a fortune teller about his future. Here is what she told him:

You (earn) a lot of money.

You (travel) around the world.

You (meet) lots of interesting people.
 Everybody (adore) you.
 You (not / have) any problems.
 Many people (serve) you.
 They (anticipate) your wishes.
 There (not / be) anything left to wish for.
 Everything (be) perfect.
 But all these things (happen / only) if you marry me.

Week 2 Day 2

Grammar:

Topic: Present Continuous Tense

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

<https://www.youtube.com/watch?v=eP2xS6KygY0>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

(A) Tick (✓) the correct words in the brackets.

1. The man (am, is, are) wearing a cap.
2. Birds (am, is, are) sitting on treetops.
3. We (am, is, are) learning grammar.
4. People (am, is, are) walking in the streets.
5. A kite (am, is, are) flying high up in the sky.



(B) Fill in the blanks with the present continuous form of the verbs given in the brackets. Do not forget to use **am, is or are**.

1. I _____ chocolates. (eat)
2. My friends _____ me. (call)
3. It _____ outside. (rain)
4. Meena and Rita _____ to school. (go)
5. The children _____ noise. (make)
6. Ouch, you _____ on my toe! (step)
7. Look! They _____ this way. (come)
8. The farmer _____ in the field. (work)
9. My little brother _____. (cry)
10. The teacher _____ (stand) and
the students _____. (sit)



Week 2 Day 3

Grammar:

Topic: Past Continuous Tense

Video Link: https://www.youtube.com/watch?v=1nzKmXe_9tk

<https://www.youtube.com/watch?v=V01-SdaEGjw>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

Past Continuous (1)

We use the **Past Continuous Tense** to talk about something that **was happening** at a specific time in the past.

To use the **Past Continuous Tense**, you need a [**Past Tense Be Verb**] + [**Verb+ing**]:

We also use the Past Continuous Tense with the word "during," to talk about two things that were happening at the same time:

→ I [past continuous] during [time]:

Examples:

- **I was sleeping during the concert.**
- **They were arguing during the movie.**

Write [**Past Tense Be Verb**] + [**Verb+ing**] to complete the following sentences:

1. I _____ during the baseball game.
2. The two girls _____ during the math test, so the teacher was angry at them.
3. Mary _____ during math class.
4. James and Mark _____ during lunchtime.
5. Those two boys _____ during the whole movie!
6. Everyone was _____ during the party.
7. My sisters _____ during summer vacation.
8. Nathan _____ during the music concert.
9. Christina and Lilian _____ during the football game.

Week 3 Day 1

Grammar:

Topic: Future Continuous Tense

Video Link: <https://www.youtube.com/watch?v=v8ogAiASFuw>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

NAME: _____ DATE: _____

GRAMMAR WORKSHEET FUTURE CONTINUOUS



I		
You		
He		
She	will be	studying.
It		
We		
They		

I		
You		
He		
She	will not be	studying.
It		
We		
They		

I will = I'll
you will = you'll
he will = he'll
she will = she'll
it will = it'll
we will = we'll
they will = they'll

will not = won't

	I	
	you	
	he	
Will	she	be studying?
	it	
	we	
	they	

Yes,		No,	
I		I	
you		you	
he		he	
she	will.	she	will not.
it		it	
we		we	
they		they	



- Use the words to write sentences with Future Continuous. Use 'will be' or 'won't be' or 'won't'.

1. (I / not travel / next week) I won't be traveling next week.
2. (Sam / study / at two o'clock) _____
3. (you / work / tonight?) _____
4. A: (she / study?) _____ ? B: No, she _____
5. (they / not drive / tomorrow) _____
6. A: (you / sleep?) _____ B: Yes, I _____
7. (we / watch TV / tonight) _____
8. (Mr. Smith / fly to Italy / soon) _____
9. (the sun / set / at seven o'clock) _____
10. A: (we / eat / soon?) _____ B: Yes, we _____
11. (where / you / stay?) _____
12. (I / do my homework / tonight) _____
13. (how / they / get to work?) _____
14. A: (she / play?) _____ ? B: No, she _____
15. (I / get a haircut / this afternoon) _____

Week 3 Day 2

Grammar:

Topic: Present Perfect Tense

Video Link: <https://www.youtube.com/watch?v=PuH8vShtAcQ>

<https://www.youtube.com/watch?v=4PoBcfq2DRs>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

Complete the sentence below by changing the verb in the () to form a correct Present Perfect Tense.

1. They have (torture) ----- the lady that stole the watch.
2. I haven't (steal) ----- anything from you.
3. Lizzy has (keep) ----- the money under her pillow.
4. His Uncle has (treat) ----- malaria last Tuesday.
5. The man has (teach) ----- my children.
6. I've never (write) ----- the essay.
7. The bird has (fly) ----- to the sky, and have not yet (return) -----
----- bank.
8. I have (see) ----- John, but I've never (meet) ----- his
wife.
9. Mum has (help) ----- some of her friends to buy groceries.
10. My sister has (contest) ----- for Miss World, but she hasn't
(inform) ----- me.
11. I have (spread) ----- the news to them.
12. Dad has (drive) ----- the car to his office.

Week 3 Day 3

Grammar:

Topic: Past Perfect Tense

Video Link: <https://www.youtube.com/watch?v=6PbTHEs3W0A>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

NAME: _____ DATE: _____

GRAMMAR WORKSHEET

PAST PERFECT

had not = hadn't

I			
You			
He			
She	had	eaten	(before the taxi arrived).
It			
We			
They			

I				
You				
He				
She	had	not	eaten	(before the taxi arrived).
It				
We				
They				

Had	I you he she it we they	eaten	(before the taxi arrived)?
-----	---	-------	----------------------------

Yes,		No,		
I you he she it we they	had.	I you he she it we they	had	not.

● Study the boxes above. Then, complete the sentences.

- A: Had Jim ever (fly) flown before his flight last week?
B: Yes, he _____.
- A: _____ your sister (eat) _____ breakfast before she left?
B: No, she _____.
- James said he _____ already (see) _____ the movie last year.
- I got lost because I (forget) _____ to bring a map.
- They (not study) _____ English before last year.
- She (live) _____ in Leeds before she moved to London.
- The baby (fall asleep) _____ before eight o'clock.
- I (not think) _____ of that question before.
- Sue got wet because she (not bring) _____ an umbrella.
- He (own) _____ his car for a year before he sold it.
- I didn't notice that the traffic light (turn) _____ red.
- He (order) _____ rice, but the waiter served him soup.

Week 4 Day 1

Grammar:

Topic: Future Perfect Tense

Video Link: <https://www.youtube.com/watch?v=W3EvN4kuZq0>

<https://www.youtube.com/watch?v=SSf73w6l5g>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

NAME: _____ DATE: _____

GRAMMAR WORKSHEET

FUTURE PERFECT



I		
You		
He		
She	will have	eaten dinner.
It		
We		
They		

I		
You		
He		
She	won't have	eaten dinner.
It	[will not have]	
We		
They		

	I		
	you		
	he		
Will	she	have	eaten dinner?
	it		
	we		
	they		

		Yes,	No,
I	I		
you	you		
he	he		
she	she	will.	
it	it		won't.
we	we		[will not]
they	they		

- Study the above boxes and fill in the blanks to complete the sentences.

1. I'm hungry now. I (eat) will have eaten dinner before you get home.
2. A: _____ the sun (rise) _____ by the time you get up tomorrow?
3. B: Yes, it _____.
4. How many kids _____ you (have) _____ by the time you are 35?
5. My classmate (not / finish) _____ his homework before class.
6. Don't worry. I (return) _____ the library books by tomorrow.
7. I think robots (take over) _____ the world by 2050!
8. A: _____ they (arrive) _____ at the airport in time to catch their flight?
9. B: No, they _____.
10. Why (not / fix) _____ the mechanics _____ your car by Tuesday?
11. A: How many hours of TV _____ you (watch) _____ by this time tomorrow?
12. B: Actually, I (not / watch) _____ any TV!
13. By what age _____ Sarah _____ from college?
14. A: Do you think people (land) _____ on Mars by 2030?
15. B: No, I _____.

Week 4 Day 2

Grammar:

Topic: Present Perfect Continuous Tense

Video Link: <https://www.youtube.com/watch?v=6oefddhQdd8>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

Present Perfect Continuous Tense

Worksheet 8

Complete each sentence by changing the verb in the bracket to form a correct Present Perfect Continuous sentence.

1. I have been (protect) ----- the boy since I became a lawyer.
2. I have not been (tell) ----- lies since I knew its dangers.
3. The man has been (import) ----- rice since he got the money.
4. We have not been (export) ----- fruits since last month.
5. The boy has been (drum) ----- like a pro since we came.
6. We have been (hike) ----- on the mountain since morning.
7. I have been (plait) ----- my hair since I was 2.
8. Mum has been (sleep) ----- since morning.
9. My brother has been (daydream) ----- for months.
10. The pastor has been (minister) ----- for hours.

Week 4 Day 3

Grammar:

Topic: Past Perfect Continuous Tense

Video Link: <https://www.youtube.com/watch?v=K446iFY2Eb0>

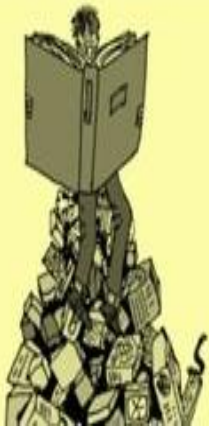
Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

PAST PERFECT CONTINUOUS

Write the Past Perfect Continuous form of the verb in brackets:

- 1) Tom was sitting on the chair, out of breath. He _____ (run).
- 2) We _____ (walk) along the road for about 20 minutes when a car stopped and the driver offered us a lift.
- 3) When I arrived, everyone was sitting round the table and talking. Their mouths were empty but their stomachs were full. They _____ (eat).



- 4) When I arrived, Jessica was waiting for me. She was rather annoyed with me because I was late and she _____ (wait) for me for two hours.
- 5) I _____ (do) my homework for two hours when my friend came.

Week 5 Day 1

Grammar:

Topic: Future Perfect Continuous Tense

Video Link: <https://www.youtube.com/watch?v=MuZhyCxiH9Q>

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

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

Future perfect progressive

Grade 5 Verbs Worksheet

Fill in the blanks to complete the sentences in the future perfect progressive.

The future perfect progressive (continuous) tense is formed by using will have been followed by the -ing form of the verb.

I will have been working all night.

1. This show will have been ending (will end) at midnight.
2. My family _____ (will eat) turkey and potatoes for Thanksgiving.
3. Stanley and Rose _____ (will study) for the history test at the library.
4. My teacher _____ (will give) us homework tonight.
5. The plumber _____ (will fix) the sink in our kitchen.
6. Jeff _____ (will go) to the park to practice baseball with his friends.
7. Our favorite team _____ (will play) in the finals of the tournament.
8. The workers _____ (will repair) the street over the summer.



Now try on your own:

1. Form a sentence using the **future** tense.

2. Form a sentence using the **future perfect progressive** tense.

Week 5 Day 2

Grammar:

Topic: Tenses Quiz Online

Video Link: <https://www.learnenglishfeelgood.com/mixed-verb-tenses5.html>

https://www.english-grammar.at/online_exercises/tenses/all_tenses12.htm

Activity: Dear students click on the given links for online quiz.

Week 5 Day 3

Topic: Paragraph writing

Activity: Write a paragraph on the following topics (Word limit 100-150)

My Quarantine Diary

Solar Eclipse

Week 6 Day 1

Grammar:

Topic: Simile & Metaphor

Video Link: <https://www.youtube.com/watch?v=uoSBVNUO2LU>

Activity: Dear students watch the video carefully and write examples of Simile & Metaphor

Worksheet:

Simile

A comparison of two different things using the words, "like" or "as".

Example:

On her first day of school, Jane was as cool as a cucumber.



WordNerdSpeechTeach

Metaphor

A comparison of two different things that DOES NOT use the words "like" or "as".

Example:

Noah has a heart of a lion.



WordNerdSpeechTeach

Week 6 Day 2

Grammar:

Topic: Online Quiz of Simile & Metaphor Quiz

Link:

https://reviewgamezone.com/mc/candidate/test/?test_id=33097&title=Which%20Is%20It%20Simile%20Or%20Metaphor

Activity: Dear students open the link and solve the quiz.

Week 6 Day 3

Grammar:

Topic: Personification

Video Link: <https://www.youtube.com/watch?v=nSV5QicssHs>

Activity: Dear students watch the video lecture carefully and solve the given worksheet.

Worksheet:

Write the word that personifies the object in each sentence.

squeezed winked turned whispered
sleeps smiled complained

The car _____ as the key was roughly turned in its ignition.

The approaching car's headlights _____ at me.

The moon _____ at the stars in the sky.

The moon _____ over to face the day.

This city never _____.

Winter's icy grip _____ his rib cage.

The wind _____ the rumors of the forest.

Physics

Week 1 Day 1

Chapter no# 5(Gravitation)

Topic Name: The Force of Gravitation

Law of Gravitation and Newton's Third law

Video Link: <https://www.youtube.com/watch?v=9vw9UcCJvts>
<https://www.youtube.com/watch?v=Xp31JE1NeBw>

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

Worksheet:

Give the Answer of these questions.

1. Who gave the idea of gravity?



2. What is meant by force of gravitation?



3. Explain Newton's Third law of motion.

Week 1 Day 2

Chapter no# 5(Gravitation)

Topic Name: i- Gravitational field
ii- Mass of Earth

Video Link: <https://www.youtube.com/watch?v=lzb4lw3TjxM&t=10s>
<https://www.youtube.com/watch?v=s-yzsQANCAU>

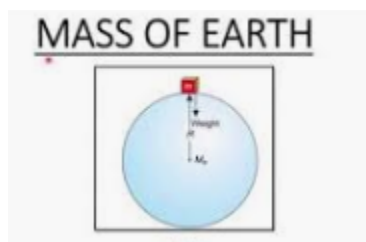
Activity: : Dear Students, watch the video lecture carefully and answer the questions given in the worksheet.

Worksheet:

Give the answer of these questions.

What is meant by gravitational field strength.

How the mass of Earth can be determine?



Week 1 Day 3

Chapter no# 5(Gravitation)

Topic Name :i- variation of g with altitude
ii- Artificial satellites
iii- Motion of artificial satellites

Video Link: <https://www.youtube.com/watch?v=GuJXBq0Rb8A>
<https://www.youtube.com/watch?v=WTfvkvLXI4>
<https://www.youtube.com/watch?v=O45XHIK1csw>

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

Worksheet:

Give the answer of these questions.

1. Why does the value of g vary from place to place?

2. What are artificial satellites?



3. What are geostationary satellites?

Week 2 Day-1

Chapter no# 5(Gravitation)

Topic Name: Exercise short question. (5.1-5.7)

Video Link: <https://www.youtube.com/watch?v=Oqb1FETzUh0>

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

Worksheet:

Give the Answer of these questions.

1. Do you attract the earth or earth attract you? Which one is attracting with the larger force ? you or the earth?

Describe Nuclear energy.

Week 4 Day 3

Chapter no# 6(Work and Energy)

Topic Name: Inter conversion of Energy
Mass Energy Equation.

Video Link: <https://www.youtube.com/watch?v=SwQaDbwyaiE>
<https://www.youtube.com/watch?v=u-uB-QAnYjI>

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

WorkSheet:

How is energy is converted one form into another form?



Explain the conversion of energy with this picture.

Week 5 Day 1

Chapter no# 6(Work and Energy)

Topic Name: Major sources of Energy

Video Link: <https://www.youtube.com/watch?v=o49Th3KeV8c>

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

Worksheet:

Why fossil fuels are called non-renewable energy?

How energy obtained from water?

10. An example of a fossil fuel is:

- a. Wood
- b. Petroleum
- c. The sun
- d. water

Ans: _____.

Week 5 Day 2

Chapter no# 6(Work and Energy)

Topic Name: i-Energy and Environment

ii-Efficiency

iii-Power

Video Link: <https://www.youtube.com/watch?v=WLIhuLIBgU>
<https://www.youtube.com/watch?v=vt3r1ZEUXeM>
<https://www.youtube.com/watch?v=ssqufsLHxVE>

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

Worksheet:

List the environmental issues associated with energy.

How can you find the efficiency of the system?

Calculate the power of pump which can lift 200kg of water through a height of 6m in 10 seconds.

Week 6 Day 2

Chapter no# 6(Work and Energy)

Topic Name: Exercise short Questions. (6.1-6.8)

Video Link: <https://www.youtube.com/watch?v=xuZa1K1Kfy4>

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

Worksheet:

Answer these Questions.

When does a force do work?

Why do we need Energy?

Define energy give two types of energy.

Week 6 Day 3

Chapter no# 6(Work and Energy)

Topic Name: Exercise Short Questions (6.9-6.16)

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

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

Worksheet:

Answer these questions.

Which form of energy is most preferred and why?

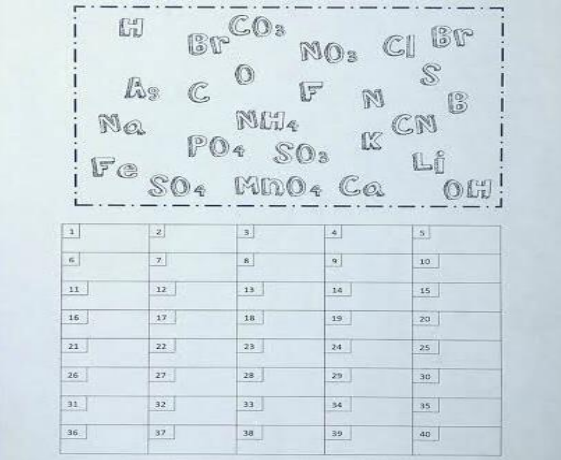
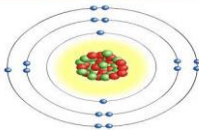
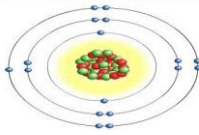
Name five device that convert electrical energy into mechanical energy.

What is meant by term power?

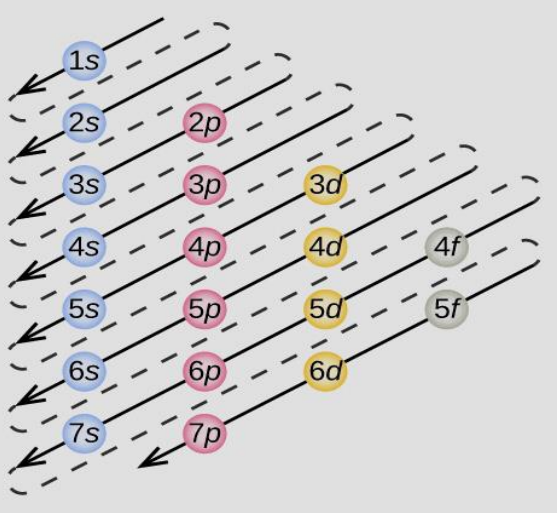
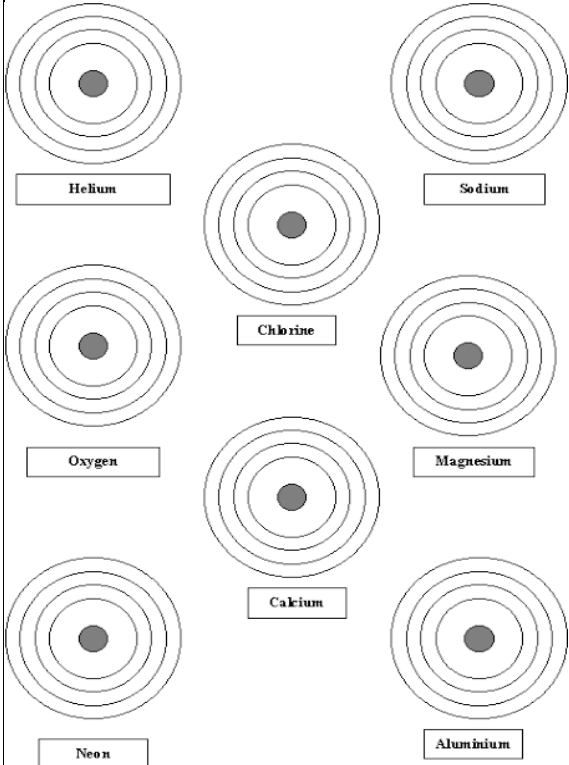
Define watt?

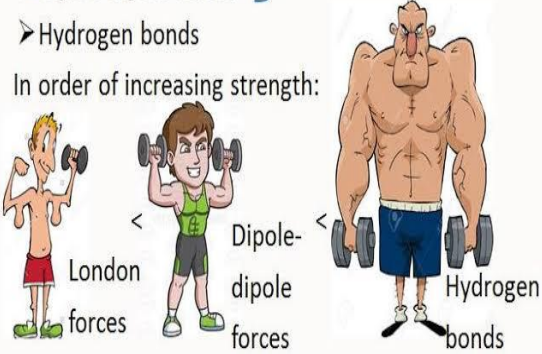
Chemistry

Week1

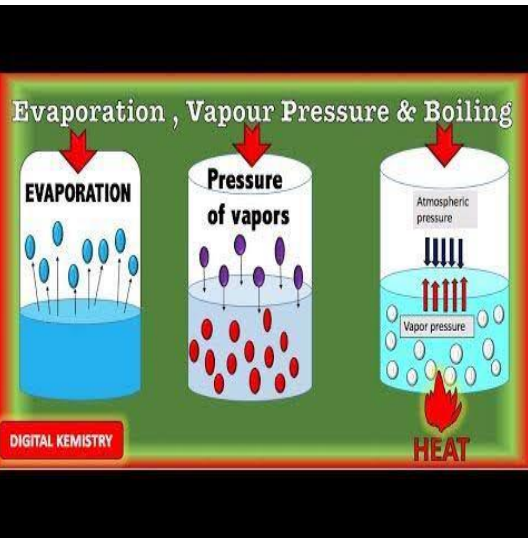
Day:1	Topic	Video link	Task												
	Ions (cations and anions)	https://youtu.be/s7UhxvVXLr4	<p>Q. Explain why?</p> <ol style="list-style-type: none"> 1) An oxide ion O^{2-} has -2 charge. 2) Magnesium ion, Mg^{2+} has +2 charge 3) Sulphide ion, S^{2-} has -2 charge. <p>Activity</p> <p>First colour all the anions blue and cations yellow. Then, label all the charges. Finally write as many formulas as you can. Don't forget to balance charges and to write cations first in formula.</p> 												
Day:2	Ions and free radicals.	https://youtu.be/LT8KrYXV3Q	<p>Difference between ions and free radicals.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="background-color: yellow;">Ions</th> <th style="background-color: yellow;">Free Radicals</th> </tr> </thead> <tbody> <tr> <td>i</td> <td style="background-color: yellow;">These are the atoms which bear some charge.</td> <td style="background-color: yellow;">These are the atoms that have odd number of electrons.</td> </tr> <tr> <td>ii</td> <td style="background-color: yellow;">They exist in solution or in crystal lattice.</td> <td style="background-color: yellow;">They can exist in solution as well in air.</td> </tr> <tr> <td>iii</td> <td style="background-color: yellow;">Their formation is not affected by the presence of light.</td> <td style="background-color: yellow;">They may form in the presence of light.</td> </tr> </tbody> </table> <p>Q: Write three more differences of ions and free radicals</p>		Ions	Free Radicals	i	These are the atoms which bear some charge.	These are the atoms that have odd number of electrons.	ii	They exist in solution or in crystal lattice.	They can exist in solution as well in air.	iii	Their formation is not affected by the presence of light.	They may form in the presence of light.
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ii	They exist in solution or in crystal lattice.	They can exist in solution as well in air.													
iii	Their formation is not affected by the presence of light.	They may form in the presence of light.													
Day:3	Isotopes	https://youtu.be/qYm6ft-ULY https://youtu.be/POGQjTj8QpY https://youtu.be/mJGZxb_qPQE	<p>Q:1 Two isotopes of chlorine are shown in diagram. How do these isotopes differ? How are they alike?</p> <p>About 75% of naturally-occurring chlorine is chlorine-35, and 25% is chlorine-37.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>35 Cl 17</p> <p>● 17 protons ● 18 neutrons ● 17 electrons</p>  </div> <div style="text-align: center;"> <p>37 Cl 17</p> <p>● 17 protons ● 20 neutrons ● 17 electrons</p>  </div> </div>												

Week 2

Day:1	Topic	Video links	Task
	Electronic configuration.	https://youtu.be/F0Z4qNpssPU https://youtu.be/GyAAHssPC6Q	<p>Q:1 Write down the sequence of energy levels from the give diagram.</p>  <p>Q:2 Define the following terms. Electronic configuration Shells and sub-shells Auf bau principle</p> <p>Q:3 Do electronic distribution of given elements.</p> 

<p>Day:2</p>	<p>Intermolecular forces</p>	<p>https://youtu.be/5SxxVKSsN7o</p> <p>https://youtu.be/U6YWxvR-hL8</p> <p>https://youtu.be/MSUwUklykPW</p>	<p>Types of intermolecular force</p> <ul style="list-style-type: none"> • There are three broad types: <ul style="list-style-type: none"> ➤ London forces ➤ Dipole-dipole forces ➤ Hydrogen bonds <p>} Van der Waals forces</p> <p>In order of increasing strength:</p>  <p>Q:1 What are dipole-dipole forces? Q:2 Explain Hydrogen bonding in detail.</p>
<p>Day:3</p>	<p>Ions, radicals, isotopes and electronic configuration.</p>	<p>https://youtu.be/s7UhxvVXLr4</p> <p>https://youtu.be/AqYm6ft-ULY</p> <p>https://youtu.be/GyAAHssPC6Q</p>	<p>Revision</p>

Week 3

Day: 1	Topic	Video links	Task
	<p>Properties of liquids</p>	<p>https://www.youtube.com/watch?v=65H15VgLIwc</p> <p>https://www.youtube.com/watch?v=I309k_ahL3U</p>	 <p>Q:1 Give reason When you put nail polish remover on your palm, you feel a sensation of coldness. Wet clothes dry quickly in summer</p>

than in winter
 Water boils at 120 degree centigrade in a pressure cooker.
 Q:2 How does temperature effect vapour pressure of a liquid.

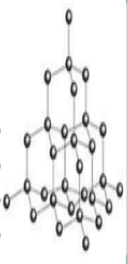
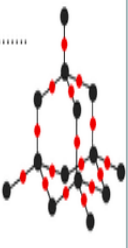
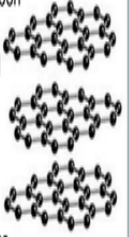

Day:2 Allotropes

<https://youtu.be/qz2t3-X8yTs>

https://youtu.be/EX0LTMc_P6I

<https://youtu.be/nwSQJWA4WTE>

Q:Fill the given worksheet.

<p>DIAMOND Allotrope of carbon Properties: 1..... 2..... 3..... 4.....</p> 	<p>GIANT COVALENT STRUCTURES "MACROMOLECULES" Huge network of atoms connected by to form a giant</p>
<p>QUARTZ Chemical Formula..... Properties: Same as for DIAMOND</p>  <p>● = ● =</p>	<p>GRAPHITE Allotrope of carbon Each carbon atom is bonded to only other atoms, forming layers of rings. Properties of graphite: 1. Weak forces between layers allow them to 2. electrons between layers allow graphite to Uses:.....</p> 
<p>FULLERENES Allotrope of carbon Discovered..... Applications:..... Cage-like structures. Can also form hollow straw-like structures called</p> 	

Q: Draw the allotropic forms of phosphorus.

Day: 3 Periodic table.

<https://youtu.be/uFMjzoaiPEo>

Q:Complete the fact sheet about periodic table.

Review Worksheet

Directions: Use the terms below to correctly complete the statements. Write the terms in the blanks to the left. Then find and circle each term in the puzzle.

metals	lanthanide	alkali	salts
metalloids	hydrogen	noble gases	

1. Elements with atomic numbers from 58 through 71 are part of the _____ series.
2. _____ have both metallic and nonmetallic properties.
3. All of the elements in the boron group except boron are _____.
4. The _____ do not naturally mix with other elements to form compounds.
5. The _____ metals are the most reactive group of elements.
6. _____ is the only nonmetal on the left side of the periodic table.

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

Week 4

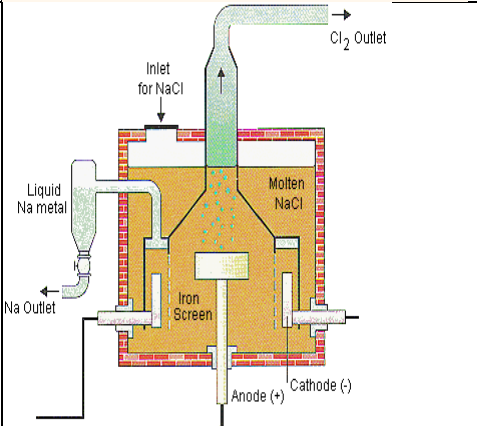
Day: 1	Topic	Video links	Task
	<p>Solubility & solute-solvent interaction</p>	<p>https://youtu.be/iPZ8F8nhxOM</p> <p>https://youtu.be/DIR-Ku7QnLE</p>	<p><u>Q:1 worksheet</u></p> <div style="background-color: #fff9c4; padding: 10px;"> <p style="text-align: center;">Like Dissolves Like Practice</p> <p>Using your knowledge of the "like dissolves like" principle of solubility, determine which compound will dissolve best in each of the following problems. Explain your reason for having made this determination.</p> <ol style="list-style-type: none"> 1) Liquid: methanol (CH₃OH) Compounds: carbon diselenide and oxygen dichloride 2) Liquid: carbon disulfide Compounds: methanol (CH₃OH) and lithium chloride 3) Liquid: water Compounds: carbon tetrachloride and ammonia 4) Liquid: isopropanol (C₃H₈O) Compounds: water and methane </div>
<p>Day:2</p>	<p>Manufacturing of sodium from fused sodium chloride.</p>	<p>https://youtu.be/zvXT01EvnaU</p>	<div style="text-align: center;">  </div> <p>Q:1 Write the stepwise procedure of manufacturing of sodium metal from fused sodium chloride along with the chemical reactions taking place at anode and cathode.</p>
<p>Day:3</p>	<p>Properties of liquids, Allotropes and periodic</p>	<p>Revision</p>	

table.

Word search



In the Chemistry Lab

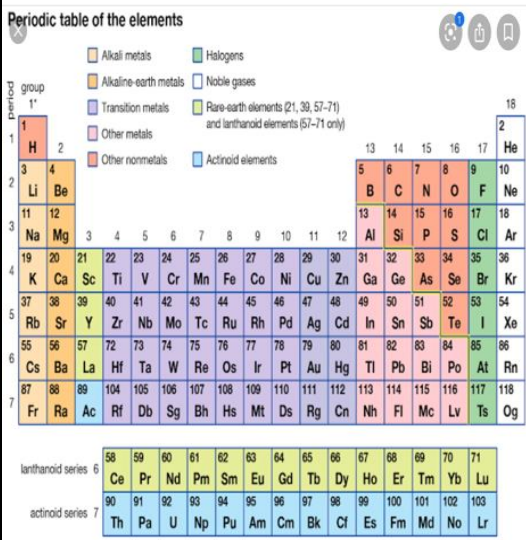
Find all of the chemistry related words from the list below. The words can be up, down, forward, backward, or diagonal.

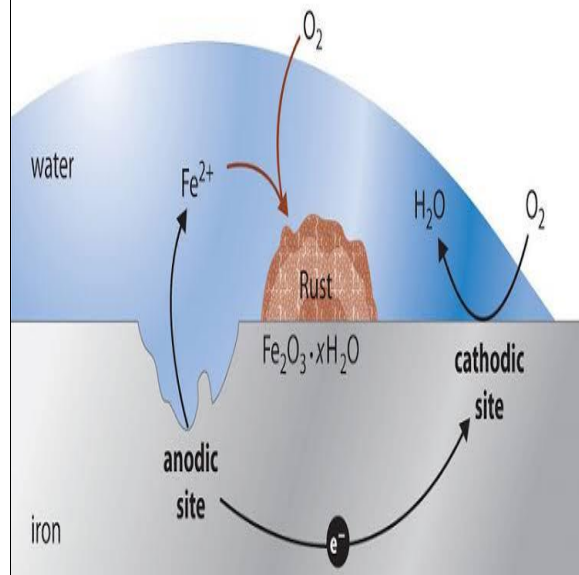
S U J N V X L G T E P C G A S B Y
E A M O U E P R S T F M N S C P X
G S Z I N J E E E D L O W R I I A
L Q A N U K M S P S A L E E S E D
G P U B A U T M I F S E L P V L B
I F W E L T S W I L K C E A T E X
G G B O U F T E M Z U U M P H C V
Y M V B C H E M I C A L E S E T O
T N E M I R E P X E O E N U R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



ACID	ELECTRODE	KELVIN	SOLID
ATOMS	ELEMENT	LIQUID	SOLUTION
BASE	EXPERIMENT	LITHIUS PAPER	SUBLIMATION
BEAKER	FLASK	MICROSCOPE	TEST TUBE
BUNSEN BURNER	FUNNEL	MOLECULE	THERMOMETER
CHEMICAL	GAS	NUCLEUS	VOLUME
DENSITY	ION	PETRI DISH	

Week 5

Day:1	Topic	Video links	Task																								
	<p>Chemical reactivity of elements</p>	<p>https://youtu.be/txCFeX1SYzk</p> <p>https://youtu.be/XNGWUtWMFfg</p>	<p>Q: Complete the worksheet with the</p>  <p>help of periodic table.</p> <table border="1"> <thead> <tr> <th>Periodic Groups</th> <th>Group #</th> <th>Valence Electrons</th> <th>Chemical Reactivity (Yes or No)</th> </tr> </thead> <tbody> <tr> <td>Alkali Metals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Alkaline-Earth Metals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Transitional Metals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Halogens</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Noble Gases (Inert Gases)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Periodic Groups	Group #	Valence Electrons	Chemical Reactivity (Yes or No)	Alkali Metals				Alkaline-Earth Metals				Transitional Metals				Halogens				Noble Gases (Inert Gases)			
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Halogens																											
Noble Gases (Inert Gases)																											
Day:2	<p>Corrosion and its prevention</p>	<p>https://youtu.be/RwOpJhVZRxA</p> <p>https://youtu.be/3II_N2KaShM</p>	<p>Q:1 Explain the process of rusting of iron along with the chemical reactions as shown in the diagram.</p>																								



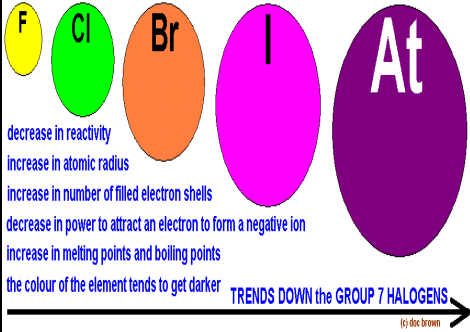
Q:2 Name the methods for the prevention of corrosion.

Day:3 Intermolecular forces, physical states of matter, Revision

Practice worksheet

Intermolecular Forces – What attracts the molecules to each other?	
Electrostatic forces – the positively charged end of one molecule aligns with the negatively charged end of another molecule.	
London Dispersion Forces	Illustration/Example
Dipole-Dipole Attraction	Illustration/Example
Hydrogen Bonding	Illustration/Example

Week 6

Day:1	Topic	Video links	Task																				
	Some important alkali & alkaline earth metals	https://youtu.be/HV8jqYjcb30 https://youtu.be/WoRdIK_B4U	Q:1 Write salient features of Sodium. Q:2 Write down the reactions of Mg with water and oxygen. Q:3 write down the uses of Ca.																				
Day:2	Reactivity of Halogens	https://youtu.be/HfDos61svkl https://youtu.be/fVtF0JtO8Hw https://youtu.be/90UVc9ohVyg	Q:1 What information you are getting from the diagram shown below.  Q:2 Complete the worksheet <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>1. The halogens belong to which group number? _____</p> <p>2. Fill in the table below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Element</th> <th>Symbol</th> <th>Melting point in °C</th> <th>Boiling point in °C</th> <th>What does it look like?</th> </tr> </thead> <tbody> <tr> <td>Fluorine</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Chlorine</td> <td>Br</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Iodine</td> <td>At</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>What happens to the melting points and boiling points as you go down group 7? _____</p> <p>3. At room temperature (25°C): a. Name a halogen that is a solid? _____ b. Which two halogens are gases? _____ & _____</p> <p>4. Which hazard warning symbols would you need on a bottle of bromine? _____</p> <p>5. What hazard warning symbol would you need on chlorine? _____</p> <p>6. After observing some chemical reactions of the halogens. Describe the reactivity as you go down the group? _____</p> </div>	Element	Symbol	Melting point in °C	Boiling point in °C	What does it look like?	Fluorine					Chlorine	Br				Iodine	At			
Element	Symbol	Melting point in °C	Boiling point in °C	What does it look like?																			
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Chlorine	Br																						
Iodine	At																						
Day 3	Electrochemical industries, corrosion and its prevention and chemical reactivity of elements	https://youtu.be/RwOpJhVZRxA https://youtu.be/3II_N2KaShM	Revision																				

Pakistan Study

Week 1

Day 1

Chapter 04: History of Pakistan Search for constitution.

What is a constitution?

How was first Constitutional Assembly formed?

Short Question.no.1

Chapter: 02 Early problems of Pakistan.

Describe the unjust division of Radcliffe, rehabilitation of Refugees, Administrative and problem of distribution of Assets.

Which areas of Muslim majority, India got as a result of unjust division by Radcliffe?

Textbook page#93-94, short question #12.

Day 2

Pakistan Affair 01: Corona Virus

Why is this disease being called as COVID-19 disease?

What are the symptoms that a person is infected with Corona Virus?

What kind of tests are being used to diagnose it?

Chapter: 04 Early problems of Pakistan.

What was the decided division of Army assets between India and Pakistan? Was Pakistan given its due share?

How did the partition of Sub-continent affect the natural flow of rivers?

Textbook page# 95-96 & long question# 5.

Day 3

Strength of Pakistan: Pakistan Ordnance Factory

Where is POF situated in Pakistan and when was it established?

What Military products are being manufactured in POF?

What is the mission of POF and how many units of it are working in Pakistan?

Video Links

Day 1

- <https://youtu.be/KKvUNWsx0lw>
- <https://youtu.be/pftILDZRsGY>
- <https://youtu.be/sCFpp-JH9Ag>

Day 2

- <https://youtu.be/iFoFPoVlt5Q>

<https://youtu.be/EKUB5vcv-H0>

- <https://youtu.be/dTEp5FggBwo>

Day 3

- <https://youtu.be/3FqOia0irjo>
- <https://youtu.be/rXh28yTUNqY>

Students can take help from this link to solve exercises according to board pattern.

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=2ahUKEwjFnKv3obPpAhVRUcAKHRCsDXcQjBAwBnoEAcQFQ&url=https%3A%2F%2Fclassnotes.xyz%2Fclass-9-pakistan-studies-notes-fbise%2F&usq=AOvVaw3xAe2dNe4Jnhg5xBuGqrSj>

Week 2

Day 1

Chapter: 04 “Quaid-e-Azam as first Governor General of Pakistan.”

Explain the role of Quaid-e-Azam as first Governor General of Pakistan.

Long Question # 11 from textbook.

Chapter: 04 Liaqat Ali Khan and Pakistan Objectives Resolution 1949.

What do you know about Liaqat Ali Khan? What role did he play to maintain brotherly relationships with Islamic countries?

Elaborate important points of Objective Resolution.

Textbook page# 99-100, Long Question #6.

Day 2

Pakistan Affair 02: COVID-19 and Pakistan Economy

What are the impacts of COVID-19 on Pakistan’s trade?
How China is helping Pakistan during this time of need?

Chapter: 04 Constitutions of Pakistan.

Write five Islamic Provisions of the Constitution of 1956.

How was the Constitution of 1956 abrogated?

Write salient features of Constitution of 1962.

Short Question # 3, 10 and long Question# 7.

Day 3

Pakistan Values 02: “Honesty”

What is the importance of Honesty in our lives?

What do we mean when we say a person is honest?

Is there a difference between Honesty and truthfulness?

Video Links

Day 1

- <https://youtu.be/tf1T6AD9FdA>
- <https://youtu.be/sdEwLKz7-ec>
- <https://youtu.be/tTPDMMP C01s>

Day 2

- <https://youtu.be/xCt9gP2WAol>
- <https://youtu.be/wKsyw2ve5B4>
- <https://youtu.be/jkehfDDI5As>
- <https://youtu.be/rS1VU6wArVE>
- <https://youtu.be/MUxSQwYpuR0>

Day 3

- <https://youtu.be/FV4Kd2KXWkc>
- <https://youtu.be/TK8DHIXTKhA>
- <https://youtu.be/Cxh7q7pNUOg>

Students can take help from this links to solve exercise according to board pattern.

<https://www.freeilm.com/9th-class-pak-studies-chapter-4-eng-medium/>

Week 3

Day 1

Chapter: 04 “Separation of East Pakistan”
What role India play in the separation of East Pakistan?
What is the present name of East Pakistan?
Textbook page # 125.

Chapter: 04 Separation of East Pakistan”
Describe the causes of separation of East Pakistan.
Long Question #8.

Day 2

Pakistan Affair 03: Tree Tsunami scheme
Which trees are planted in Billion tree tsunami?
What kinds of measures government of Pakistan is taking for forest?
Why Pakistan needs more trees?

Chapter: 04 History of Pakistan
Write any five points of Muslim Family Laws Ordinance.
How was Malakand division formed?
Short Q.no. 03, 05, from textbook.

Day 3

Pakistan Values 03 Justice in our Society
How can we maintain justice in our society?
Tell how Justice is a basic human need?

Video Links

Day 1

- <https://youtu.be/hUZmENvDW8s>

- <https://youtu.be/6XjFsexC58g>

Day 2

- <https://youtu.be/zarll9bx6FI>

- <https://youtu.be/RU5iG3miKco>

- https://youtu.be/VdVguV_kb_8

- <https://youtu.be/rdUcnQh5aIE>

Day 3

- <https://youtu.be/H0CTHVCkm90>

- <https://youtu.be/rtBvQj2k6xo>

Week 4

Day 1

Chapter: 04 Legal Framework Order

Which president was opposed during the regime of General Yahya Khan?

Explain salient features of Legal Framework Order.

Textbook page# 122, long Question 9.

Chapter: 04

What are the policies described in the Legal Framework Order?

What is meant by Union Council and Union Committee?

What is meant by Single Citizenship?

Short Question# 8, 9,11.

Day 2

Pakistan Affair 04: E-learning

What is e-learning and its advantages?

What is government's initiative to introducing e-learning programs?

How institutions are cooperating education these days?

Chapter: 04:

What is Martial law?

Why did Ayub Khan impose Martial Law during his regime?

List out the causes.

Textbook page# 107-108.

Day 3

Pakistan Values 04: Leadership qualities

List out the characteristics features of a good leader.

Explain how good leadership leads towards success?

Video Links

Day 1

- <https://youtu.be/rzydU1YdqGc>
- <https://youtu.be/g0sRZQIIHTo>
- <https://youtu.be/HUCWQtK0mxQ>
- <https://youtu.be/a1LJYhnanu4>

Day 2

- <https://youtu.be/UE4mMATIOS4>
 - https://youtu.be/dFs-QykR_Mk
 - https://youtu.be/MQOBTA_R_liw
 - https://youtu.be/Nu87_ML-B4I
 - <https://youtu.be/AGHYCG36ssw>
- ### Day 3
- <https://youtu.be/Z9MHLrzBfl>
 - <https://youtu.be/VooQmpzclgY>
 - <https://youtu.be/6SOTBHAcLV4>

Students can take help from this link to solve exercises according to board pattern.

<https://www.office.com.pk/9th-ix-class-pak-studies-exercise-notes-english-new-course-fbise-history-of-pakistan-part-i/>

Week5

Day 1

Chapter: 04 Indo-Pak War 1965

Describe two causes of war of 1965.

What was the role of Pakistan Navy in the war of 1965?

Short Question 5 & 7 from textbook.

Chapter: 04 Indo-Pak War 1965

Narrate events of Indo-Pak War of 1965.

Long Question # 10 from textbook.

Day 2

Pakistan Affair 05: CPEC and Balochistan

Tell how CPEC will bring prosperity to the people of Balochistan?

How CPEC is good news for Balochistan travelers/traders?

Why Balochistan strategically important for Pakistan?

Chapter: 04 Indo-Pak War 1965

What were the effects of war of 1965.

How did the Pakistani people show their Solidarity during 1965 war?

Textbook page # 117-118.

Day 3

Pakistan Values 05: "Compassion"

Why do you choose to act compassionately?

Does it depend on circumstances and the people involved?

How can you show compassion towards needy during this time of pandemic?

Students can take help from this link to solve exercises according to
<https://www.office.com.pk/9th-ix-class-pak-studies-exercise-no-1-history-of-pakistan-part-i/>

Video Links

Day 1

- https://youtu.be/PdT_ftXyxQ
- <https://youtu.be/0j8zSZuQH4Y>

Day 2

- <https://youtu.be/2fv2CmxWjYg>
- <https://youtu.be/WpAWOB7uv1w>
- <https://youtu.be/9fCfJHAthEc>

- https://youtu.be/rZWR_I7Bb8

Day 3

- <https://youtu.be/9ylsG5zx6Mo>
- <https://youtu.be/ZMloelc0DI>

Week6

Day 1

Chapter: 04 Economic Development

What do you mean by Economic Development Plan?
What were the targets of 2nd Five Year Development Plan?
Short Question #4, &14.

Chapter: 04 Economic Development

Mention five targets of 3rd Five Year Development Plan,
Name the large scale industries which flourished during
1958-1969.

Day 2

Pakistan Affair 06: Energy Crisis of Pakistan.
Why are we facing increasing Energy crisis in Pakistan?
Suggest some of the ways to overcome these crises?

Chapter: 04 History of Pakistan

Draw a column and discuss the similarities and differences
of Constitution of 1956-1962.

Day 3

Pakistan Values 06: Punctuality

How punctuality helps us being disciplined and achieves
our goals faster?
What is the importance of punctuality in a student's life?

Video Links

Day 1

- <https://youtu.be/ovSJK4GZeHE>
- https://youtu.be/idBaJiG7_j0
- <https://youtu.be/MC9ggZuLwmg>

Day 2

- <https://youtu.be/oc1hpL8I5vw>
- <https://youtu.be/44jRDCigl bk>
- <https://youtu.be/c54g1uQHBrC>
- <https://youtu.be/IV0CWzm yOD0>

Day 3

- <https://youtu.be/TNXDK1MwQvU>
- https://youtu.be/_TFFfW8A4eg
- <https://youtu.be/PsUrZUz7esk>

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

<https://classnotes.xyz/class-9-pakistan-studies-notes-fbise/>

اردو

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

یہاں ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۲۰ جولائی ۲۰۲۰	شفیق الرحمن	۸۳ سے ۷۸	مختصر سوالات کے جوابات	کتابی مواد	شفیق الرحمن کے بارے میں معلومات
۲۱ جولائی ۲۰۲۰	ملکی پرندے اور دوسرے جانور	۷۹ سے ۸۲	مختلف عبارات کی تشریح	-	-
۲۲ جولائی ۲۰۲۰	ملکی پرندے اور دوسرے جانور	۸۳ سے ۸۵	تمام مشقی سوالات	-	جانوروں سے متعلقہ سبق آموز نظمیں پڑھنا

ورک شیٹ

سوال نمبر ۱: مرکب ناقص کی ۵ مثالیں لکھیے۔

سوال نمبر ۲: مرکب تام کی ۵ مثالیں لکھیے۔

سوال نمبر ۳: اسم صفت کی اقسام کے نام لکھیے اور ایک ایک جملے میں تعریف بھی لکھیے۔

دوسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۲۰ جولائی ۲۰۲۰	کرنل محمد خان	۸۶ سے ۹۳	مختصر سوالات کے جوابات	کتابی مواد	کرنل محمد خان کے بارے میں معلومات
۲۱ جولائی ۲۰۲۰	قدر ایاز	۸۷ سے ۹۳	مختلف عبارات کی تشریح	-	-
۲۲ جولائی ۲۰۲۰	قدر ایاز	۹۳ سے ۹۶	تمام مشقی سوالات	-	دیہات میں چوپال کی اہمیت کے بارے میں جاننا

ورک شیٹ

سوال نمبر ۱: روز مرہ اور محاورہ میں فرق بیان کریں۔

سوال نمبر ۲: محاورات کے جملے بنائیں۔

اپنے منہ میں مٹھو بننا۔

اوسان خطا ہونا۔

بازار گرم ہونا۔

تارے گننا۔

چار چاند لگانا۔

سوال نمبر ۳: درج ذیل جملوں کو درست کر کے لکھیے۔

مورکی داڑھی میں تنکا۔

ماروں گھٹنا پھوٹے ہاتھ۔

شکیل ہمت کو ہار گیا۔

اپنے حق میں پودے بونا۔

رات آئی بات آئی۔

تیسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۳ اگست ۲۰۲۰	علامہ محمد اقبال	۱۱۹، ۱۲۱	مختصر سوالات کے جوابات	کتابی مواد	علامہ محمد اقبال کے بارے میں معلومات
۳ اگست ۲۰۲۰	پیوستہ رہ شجر سے امید بہار رکھ	۱۲۰	پہلے دو اشعار کی تشریح	-	-
۵ اگست ۲۰۲۰	پیوستہ رہ شجر سے امید بہار رکھ	۱۲۱، ۱۲۲	تمام مشقی سوالات	-	اتحاد و اتفاق کے موضوع پر ایک نظم لکھیے

ورک شیٹ

سوال نمبر ۱: مرکب اضافی کی ۵ مثالیں لکھیے۔

سوال نمبر ۲: علامہ اقبال کی بچوں کے لیے لکھی گئی ۵ نظموں کے نام لکھیے۔

سوال نمبر ۳: مرکب اضافی مرکب ناقص کی ایک قسم ہے۔ مرکب ناقص کی باقی اقسام کے نام لکھیے۔

چوتھا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۱۰ اگست ۲۰۲۰	خواجہ حیدر علی آتش	۱۳۰ ۱۳۲	مختصر سوالات کے جوابات	کتابی مواد	خواجہ حیدر علی آتش کے بارے میں معلومات
۱۱ اگست ۲۰۲۰	غزل زلف	۱۳۱	پہلے دو اشعار کی تشریح	-	-
۱۲ اگست ۲۰۲۰	غزل زلف	۱۳۲ سے ۱۳۳	تمام مشقی سوالات	-	اردو غزل کے ارتقا کے بارے میں جاننا

ورک شیٹ

سوال نمبر ۱: استعارہ اور تشبیہ میں فرق بیان کریں۔

سوال نمبر ۲: استعارہ کی ۵ مثالیں لکھیے۔

سوال نمبر ۳: کوئی سی ۵ ضرب الامثال معانی کے ساتھ لکھیے۔

پانچواں ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۱۷ اگست ۲۰۲۰	مرزا اسد اللہ خاں غالب	۱۳۵ ۱۳۷	مختصر سوالات کے جوابات	کتابی مواد	مرزا اسد اللہ خاں غالب کے بارے میں معلومات
۱۸ اگست ۲۰۲۰	غزل دلِ ناداں	۱۱۳۶	پہلے دو اشعار کی تشریح	-	-
۱۹ اگست ۲۰۲۰	غزل دلِ ناداں	۱۳۷ سے ۱۳۸	تمام مشقی سوالات	-	غالب کے شاعرانہ موضوعات جاننا

ورک شیٹ

سوال نمبر ۱: کنایہ اور مجازِ مرسل میں فرق بیان کریں۔

سوال نمبر ۲: کنایہ کی ۵ مثالیں لکھیے۔

سوال نمبر ۳: مالک مکان کے نام خط لکھیے جس میں اُسے مکان کی طرف توجہ دلائیے۔

چھٹا بقتہ

سرگرمی	ذرائع	گھر کا کام	صفحہ نمبر	عنوان	تاریخ
بیہادر شاہ ظفر کے بارے میں معلومات	کتابی مواد	مختصر سوالات کے جوابات	۱۳۰ ۱۳۲	بیہادر شاہ ظفر	۱۲۳ اگست ۲۰۲۰
		پہلے دو اشعار کی تشریح	۱۳۱	غزل لگنا نہیں دل	۲۵ اگست ۲۰۲۰
بیہادر شاہ ظفر کا انداز بیان جاننا		تمام مشقی سوالات	۱۳۲ سے ۱۳۳	غزل لگنا نہیں دل	۲۶ اگست ۲۰۲۰

ورک شیٹ

سوال نمبر ۱: مجاز مرسل کی پانچ مثالیں لکھیے۔

سوال نمبر ۲: دو اشعار لکھیے اور قافیہ اور ردیف کی نشان دہی کیجیے۔

سوال نمبر ۳: گاہک اور دکاندار کے درمیان مہنگائی کے موضوع پر مکالمہ لکھیے۔

اسلامیات

پہلا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۲۰ جولائی	سورۃ الانفال سبق نمبر ۳ (ا) آیات ۶۹ تا ۷۳	۲۲	الفاظ، معانی یاد کریں	کتابی مواد	معارف القرآن کی تفسیر کروانا
۲۱ جولائی	سبق نمبر ۳ (ا) مشقی سوالات	۲۲	سوالات، جوابات یاد کریں		
۲۲ جولائی	سبق نمبر ۳ (ا) عبارت کا مفہوم	۲۲	سوال نمبر ۲ (ج)		

س۔ مندرجہ ذیل الفاظ کے معانی لکھیں۔

لا یحسبن.....

ا عدو.....

لا یعجزون.....

یوف.....

حسبک اللہ.....

س۔ ان آیات (۹۵ تا ۹۶) میں جہاد کی تیاری کے بارے میں اللہ تعالیٰ نے کیا حکم دیا؟

.....

س۔ عبارت کا مفہوم لکھیں۔

یا ایہا النبی حسبک اللہ و من اتبعک من المؤمنین۔

.....

دوسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۲۷ جولائی	سورۃ الانفال سبق نمبر ۳ (ب) آیات ۶۵ تا ۶۹	۲۳، ۲۴	الفاظ، معانی	کتابی مواد	معارف القرآن کی تفسیر کروانا
۲۸ جولائی	آیات ۶۵ تا ۶۹	۲۴	مشقی سوالات		
۲۹ جولائی	سورۃ الانفال	۲۴	عبارت کا مفہوم		

ورک شیٹ

س۔ مندرجہ ذیل الفاظ کے معانی لکھیں۔

یغلبوا

لا یفقهون

حرص

اسری

عرض الدنيا

س۔ اللہ تعالیٰ نے مسلمانوں کو جہاد پر ابھارنے کے لیے کیا ترغیب دی؟

.....
.....
.....
.....

س۔ مندرجہ ذیل عبارت کا مفہوم لکھیں۔

ما کان لنبی ان یکون له اسر ی حتی یتخن فی الارض تریدون عرض الدنيا واللہ یرید الاخرة۔

.....
.....
.....
.....

تیسرا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۳ اگست	سورۃ الانفال سبق نمبر ۳ (ب) آیات ۷۰ تا ۷۵	۲۶، ۲۵	الفاظ، معانی	کتابی مواد	معارف القرآن کی تفسیر کروانا
۴ اگست	سوالات، جوابات	۲۶، ۲۵	مشقی سوالات (سوال نمبر ۱)		
۵ اگست	سوالات، جوابات	۲۶، ۲۵	مشقی سوالات (سوال نمبر ۲)		

ورک شیٹ

س۔ مندرجہ ذیل الفاظ کے معانی لکھیں۔

رزق کریم

فامکن

أووا

استنصروا

أو لو الارحام

س ۱۔ اللہ تعالیٰ نے سورۃ الانفال کی ان آیات میں قیدیوں کے بارے میں کیا ارشاد فرمایا؟

.....
.....
.....

س ۲۔ ان آیات میں اللہ تعالیٰ نے ہجرت اور نصرت کے بارے میں کیا باتیں ارشاد فرمائیں؟

.....
.....
.....

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۱۰ اگست	حدیث نمبر ۸	۵۱۱ ۵۲۲	ترجمہ اور تشریح	کتابی ذرائع	سنت نبوی کی پیروی کروانا
۱۱ اگست			سوالات، جوابات		
۱۲ اگست	سورت الانفال		مختصر سوالات		معارف القرآن

ورک شیٹ

سوال نمبر ۱۔ الراشی کسے کہتے ہیں؟

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.....

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سوال نمبر ۲۔ رشوت کیا ہوتی ہے؟

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سوال نمبر ۳۔ انہم لا یعجزون میں کن لوگوں کی طرف اشارہ ہے؟

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سوال نمبر ۴۔ واعدوا لہم ما استطعتم سے کیا مراد ہے؟

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پانچواں ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	ذرائع	سرگرمی
۷ اگست	حدیث نمبر ۹	۵۲	ترجمہ و تشریح	کتابی مواد	سنت کی پیروی کروانا
۱۸ اگست			مختصر سوالات، جوابات		
۱۹ اگست	موضوعاتی مطالعہ (علم کی نریت و فضیلت) اہمیت	۶۲ ۶۳	سوالات، جوابات		علم کی اہمیت سے آگاہی کروانا

ورک شیٹ

سوال نمبر ۱ حضور ﷺ نے باطل پر اپنی قوم کی حمایت کرنے والے کی مثال کس سے دی ہے؟

سوال نمبر ۲ قرآن کی روشنی میں علم کی اہمیت بیان کریں؟

چھٹا ہفتہ

تاریخ	عنوان	صفحہ نمبر	گھر کا کام	کتابی مواد	سرگرمی
۱۳۳ اگست	حدیث نمبر ۱۰	۵۲	ترجمہ و تشریح		طاعت رسول کی اہمیت سے آگاہ کروانا
۱۳۵ اگست	علم کی اہمیت	۶۳	سوال نمبر ۱		
۱۳۶ اگست	علم کی فضیلت	۶۳	سوال نمبر ۲		علم کی عظمت سے متعارف کروانا

ورک شیٹ

حدیث کا ترجمہ اور تشریح لکھیں۔
ان اکمل المومنین ایماناً احسنہم خلقاً۔

ترجمہ۔

تشریح

سوال نمبر ۱۔ احادیث کی روشنی میں حصول علم کی اہمیت پر نوٹ لکھیں

سوال نمبر ۲۔ قرآن و حدیث کی روشنی میں علم کی فضیلت بیان کریں۔

General Knowledge

Week 1 Day 1

Biology

Fill in the blanks with appropriate word.

1. A person feel fatigued due to deposition of which acid in their muscles? – _____
2. How many bones are present in human skull? –**22**
3. Which lobe of human brain is associated with hearing? – _____
4. Upper most layer of skin is called ____? –**Epidermis**
5. Motor skills are associated with which part of the brain? – _____

Chemistry

Give short answers.

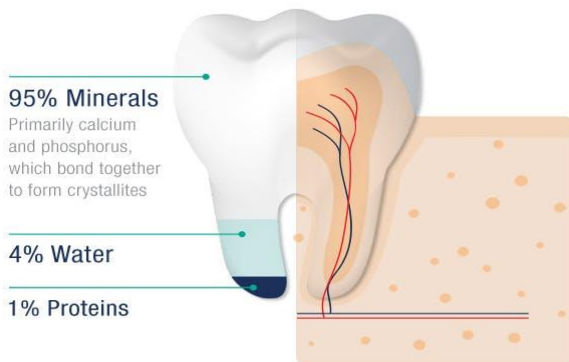
1. What Is the Rarest Element on Earth?

Ans: _____

2. What is the Hardest Chemical in Your Body?

The hardest substance on the human body is enamel, the external tissue that covers teeth. It is made up almost exclusively by minerals, being calcium phosphate the main component.

What is tooth enamel made of?



99% inorganic substances—by comparison, bones are typically around 70% inorganic

3. What Is Dry Ice?

Dry ice is basically the name we use for solid (frozen) carbon dioxide, or CO₂. It has a surface temperature of -78 °C, and it is widely used as cryo-cooling agent.

Physics

True/ false? Mass of the Earth is 6×10^{24} kg.

Which force is Inversely proportional to the square of the distance between the centers of bodies?

Week 1Day 2

Biology

Fill in the blanks with appropriate word.

1. Blood group was discovered by whom? – _____
2. The ph. value of human blood is _____? –**7.40**
3. What is the chemical name of a substance which kills rats? – _____
4. Name the largest gland in the human body? –**Liver**
5. The metal present in the haemoglobin is _____. – _____

Chemistry

Encircle the correct answer.

1). Fog is a solution of _____.

- a) Liquid in gas
- b) Gas in liquid
- c) Solid in gas
- d) Gas in gas

Answer is: _____

2). Soda water is a solution of _____.

- a) Liquid in gas
- b) Gas in liquid
- c) Solid in gas
- d) Gas in gas

Answer is: _____

3). Deep sea divers use mixture of _____.

- a) Helium - Oxygen
- b) Nitrogen - Oxygen
- c) Hydrogen - Nitrogen
- d) Helium - Nitrogen

Answer is: a)

4). The Greek term 'atomos' means _____.

- a) Divisible
- b) Indivisible
- c) Macro molecule
- d) Soft sphere

Answer is: b)

5). ^{12}C and ^{14}C are _____.

- a) Isotopes
- b) Isobars
- c) Isomers
- d) Molecules

Answer is _____

Physics

What is Value of 'g' at the surface of moon?

Week1 Day 3

Biology

Fill in the blanks with appropriate word.

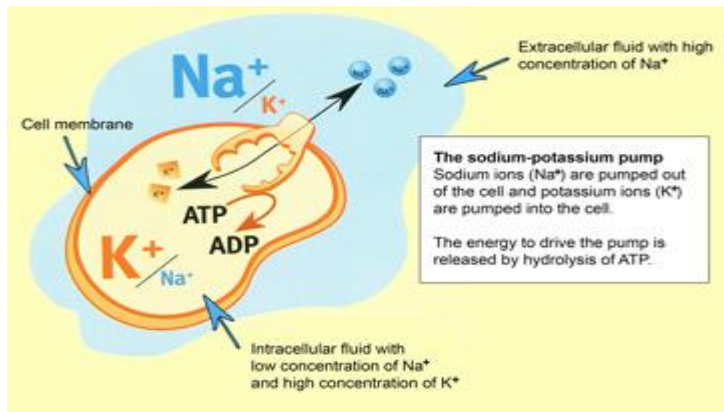
1. What is systolic and diastolic pressure in a healthy man? – _____
2. Hansen's disease is also known as ____? – **Leprosy**
3. Which is considered as the strongest natural fibre? – _____
4. The deficiency of which leads to dental caries? – **Fluorine**
5. The smallest bone in the human body is _____? – _____

Chemistry

Give short answers.

1. Can You dies for drinking too Much Water?

Hypertremia (which means "low in sodium") is what water intoxication is called. Approximately, drinking 6 liters of water in a relatively short time, can cause serious injuries, even death! This happens because huge amounts of water make your blood concentration of sodium (or other electrolytes) drop drastically, making your cells accumulate too much water inside, swell, and even rupturing.



2. Can You Taste Food without Saliva?

Ans: _____

3. Can You Freeze Air?

Yes, you can. Air is mainly a mixture of nitrogen gas (N_2) and oxygen gas (O_2). Their freezing points are $-210\text{ }^\circ\text{C}$ and $-219\text{ }^\circ\text{C}$ respectively, so below $-220\text{ }^\circ\text{C}$, air would freeze. This has been achieved by using liquid helium. Helium, however, is the only known gas that does not freeze. Helium liquefies at $-270\text{ }^\circ\text{C}$.

Week 2 Day 1

Biology

Fill in the blanks with appropriate word.

1. Which is the sweetest sugar? _____
2. Which vitamin is considered to be a hormone? – _____
3. Who explained about the blood circulation for the first time? – **William Harvey**
4. Dog bite can cause rabies. Which other animal can also cause rabies? – _____
5. Pyramid of energy is ____? – **Always upright**

Chemistry

Give short answers.

1. Why Does Wildfire Spread Uphill Quicker than Downhill?

A fire needs a combination of fuel (the trees) and oxygen to keep going. This combination is fed more easily to the fire if it is moving uphill, when the fire from the top of one tree can start burning the bottom of the next one, which is in a place with much more available oxygen and unburnt material. Picture how matches burn: they also burn much faster if held upside down than if you leave it the correct way. The case is very similar with forest fires.

2. Do Frogs Need to Drink?

Ans: _____

3. Can We See Atoms and Molecules?

Ans: _____

Physics

The value of "g" on Moon's Surface is 1.6 ms^{-2} What will be the weight of a 100 kg body on the surface of Moon?

What is the distance of Moon from Earth?

Week 2 Day 2

Biology

Fill in the blanks with appropriate word.

1. The hormone used as an oral contraceptive is _____.
2. Edward Jenner is related with which disease? – _____

3. What is the normal cholesterol level in human blood? –**180-200 mg/dL**
4. The process of photosynthesis involves conversion of what? –**Solar energy into chemical energy**
5. Which mosquito is the carrier of Zika virus? –_____

Chemistry

Give short answers.

1. How Many Water Molecules Are in a Bucket?

Let's say we have a 1 L bucket of water. One liter of water is roughly 1000 grams, which translates into 56 (1000 g/18 g/mol) moles of H₂O. If we know that each mole of a compound contains around $6.022 \cdot 10^{23}$ molecules of that compound (Avogadro's constant), we will have $3.37 \cdot 10^{25}$ water molecules inside the 1 L bucket. This number is around 4000 times larger than the estimated number of grains of sand on the entire Earth!

2. What's Special about Gallium?

Ans: _____

3. How Much Carbon Is in the Human Body?

Ans: _____

Physics

What is the value of g at Jupiter?

Week 2 Day 3

Biology

Fill in the blanks with appropriate word.

1. What percentage of water is lost during transpiration? –**99%**
2. DNA stands for _____. –**Deoxyribonucleic Acid**
3. Saliva helps in the digestion of which thing? –_____
4. Name the gas used for making vegetable ghee? –**Hydrogen**
5. Which part of brain is Centre of thirst, hunger and sleep? –_____

Chemistry

Give short answers.

1. Why Car Airbags Are Filled with Sodium Azide, a Very Toxic Substance?

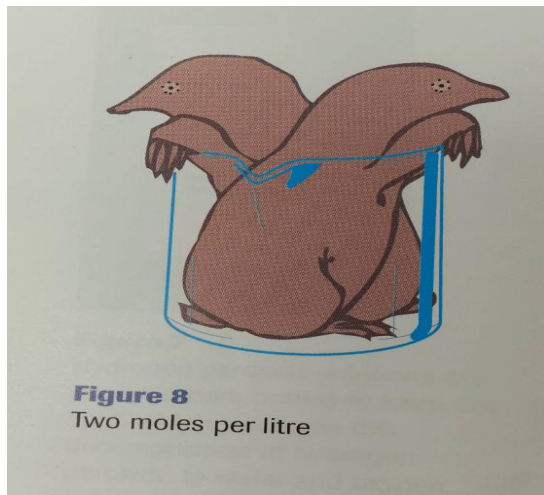
Airbags are actually not filled with some compressed gas. Chemistry takes action when airbags inflate. They are filled with around 100 grams of sodium azide (NaN₃), which upon heating (which is triggered by an igniter that goes off upon collision detection) decomposes to give N₂ gas (more than 50 L, enough to fill a typical airbag) and sodium (Na) metal. Since sodium metal is potentially explosive, the airbags also contain several compounds that would react quickly with sodium, to avoid any danger.

2. Is There Helium on Earth, and How Do We Collect It?

Ans: _____

3. What is the Mole Day?

The mole day is a sort of funny celebration day for chemists, which takes place on October 23 between 6:02 am and 6:02 pm. This makes the date to be 6:02 10/23. This celebrates basically Avogadro constant, which is roughly $6.02 \cdot 10^{23}$.



Physics

The Moon completes its one revolution around the earth ?

Who give concept of gravity was put up first?

Week 3 Day 1

Biology

Fill in the blanks with appropriate word.

1. Which enzyme is present in all members of the animal kingdom except Protozoa? – _____
2. Which disease is caused by the bite of a mad dog? – _____
3. The first vaccine injected into a just born baby is _____. –**BCG**
4. From which part of the plant is turmeric obtained? –**Stem**
5. Lachrymal glands are situated in the____? – _____

Chemistry

Encircle the correct answer.

1). **Solutions are classified into aqueous and non-aqueous solutions, based on_____.**

- a) Nature of solute particles
- b) Nature of solvent
- c) Size of the particles
- d) Thickness of solvent

Answer is: _____

2). **The solvent used to prepare aqueous solutions is_____**

- a) Water
- b) Benzene
- c) Kerosene
- d) Petrol

Answer is: _____

3). **A true solution does not show Tyndall effect, because of the_____.**

- a) Nature of solvent
- b) Amount of solute
- c) Size of the particles
- d) Nature of solute

Answer is: c)

4). **Tyndall effect is exhibited by_____.**

- a) True solutions
- b) Suspensions
- c) Colloidal solutions
- d) Crystals

Answer is: _____

5). Tyndall effect is produced by_____.

- a) True solutions of light
- b) Scattering of light
- c) Refraction of light
- d) Movement of particles

Answer is: b)

Physics

True/ false? One horse power is equal to 746Whr.

Week 3 Day 2

Biology

Fill in the blanks with appropriate word.

1. What is contained in Chlorophyll? – _____
2. Which Part of plant is important for the life cycle of plant? –**Flower**
3. Increased RBC's in the blood leads to a condition called____? – _____
4. The specific role of Vitamin K is in the synthesis of –**Prothrombin**
5. Which is known as graveyard of RBC's? __ _____

Chemistry

Encircle the correct answer.

1).Milk is a _____.

- a) True solution
- b) Colloidal solution
- c) Suspension
- d) Saturated solution

Answer is: _____

2).Nitrogen in soil is an example for_____.

- a) True solution
- b) Saturated
- c) super saturated
- d) Unsaturated

Answer is: _____

3).Blood is an example of _____.

- a) True solution
- b) Colloidal solution
- c) Saturated solution
- d) Suspension

Answer is: b)

4).When sunlight passes through the window of your house, the dust particles scatter the light making the path of the light visible. This phenomenon is called as_____.

- a) Brownian motion
- b) Tyndall effect
- c) Raman effect
- d) Uniform motion

Answer is: _____

5).Atomicity of oxygen in ozone molecule is_____.

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

Answer is: c)

Physics

Which form of energy used in the stretched bow.

Week 3 Day 3

Biology

Fill in the blanks with appropriate word.

1. Turpentine oil is obtained from _____? – _____
2. What is known as 'Suicidal bags of cell'? – _____
3. Theory of natural selection was proposed by _____. –**Charles Darwin**
4. By which doctor was the first successful heart transplant in India performed? – _____
5. BCG vaccination (Bacillus Calmette Guérin) is injected to get immunity from _____?

Tuberculosis

Chemistry

Encircle the correct answer.

1).Atomicity of primary gases is _____.

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

Answer is: _____

2).In the Beginning of the 20th century, Matter Wave concept was introduced by _____.

- a) Broglie
- b) Avogadro
- c) Heisenberg
- d) Einstein

Answer is: _____

3).The Principle of Uncertainty was introduced by _____.

- a) Broglie
- b) Avogadro
- c) Heisenberg
- d) Einstein

Answer is: c)

4).Cork is a colloid of _____.

- a) Solid in solid
- b) Liquid in solid
- c) Solid in liquid
- d) Gas in solid

Answer is: _____

5).Smoke is a colloid of _____.

- a) Solid in solid
- b) Liquid in solid
- c) Solid in liquid
- d) Solid in Gas

Answer is: _____

Physics

True/ false? The chemical Energy Stored in coal.

Week 4 Day 1

Biology

Fill in the blanks with appropriate word.

1. The plants, which grow under water stress conditions are called _____? – _____
2. Ascariasis is caused by _____? –**Round Worm**

3. Which metal is present in Insulin? – _____
4. Xerophthalmia is a disease caused by lack of which vitamin? – _____
5. Most of the red, blue and purple colours of plants are due to a pigment called _____?
–**Anthocyanin**

Chemistry

Give short answers.

1. What kind of thermometer is used to determine the depression of freezing point?

Answer: Beckmann thermometer.

2. The absence of cobalt in minute quantities in human body causes what?

Answer: _____.

3. Which element has no neutrons in it?

Answer: Hydrogen.

4. Which element can easily form chains?

Answer: _____

5. What is the fundamental particle present in P – rays?

Answer: _____

Physics

True/ false? The work will be maximum when angle between force and displacement is 30° .

Week 4 Day 2

Biology

Fill in the blanks with appropriate word.

1. Which disease is known as 'silent killer'? –**High Blood pressure**
2. First vaccine produced by bio-technology was used against which virus? – _____
3. Which salt is found in bone in largest amount? – _____
4. By who was oral polio vaccine discovered? –**Jonas Salk**
5. Genes are made by _____? – _____

Chemistry

Give short answers.

1. Cement mixed with gravel, sand, and water is called what?

Answer: _____.

2. What are isobars?

Answer: Same mass number but a different atomic number.

3. What is the measure of performance of petrol in internal combustion engines?

Answer: _____

4. What is Isotone?

Answer: Atoms having an equal number of neutrons.

5. What do you mean by dating of objects?

Answer: _____

Physics

The kinetic energy of a body of mass 2 Kg is 25 J. What will be the speed?

Week 4 Day 3

Biology

Fill in the blanks with appropriate word.

1. Haematopoiesis take place in _____? – _____
2. The food poisoning is caused by _____. –**Clostridium botulinum**
3. Alcoholic drink contains _____? –**Ethyl Alcohol**
4. Which acid is found in 'Tomato'? – _____
5. Which is responsible for the process of cell division? –**Mitosis**

Chemistry

Give short answers.

1) When a beam of white rays is dispersed by a prism which colour will be refracted to a larger extent?

Answer: _____

2) The modern atomic mass unit is based on _____

Answer: Carbon-12.

3) What do you mean by photoelectric effect?

Answer: Emission of electrons by electromagnetic radiation striking on a metal surface.

4) A raincoat is made of what?

Answer: _____.

5) What is the value of Planck's constant in SI units?

Answer: _____

Physics

10 joule work is done by machine in 5 seconds. What will be the power?

Week 5 Day 1

Biology

Fill in the blanks with appropriate word.

1. The study of Dendrology is associated with ____? – _____
2. Which are phagocytes in liver? – _____
3. Which gland disappears during old age? – **Thymus**
4. Who was the first to isolate Gene? – **Dr. Hargobind Khurana**
5. Which insect spreads kala-azar? – _____

Chemistry

Give short answers.

1) The total number of electrons present in 18 ml of water is _____

Answer: 6.02×10^{24} .

2) What is the velocity of light in m/s?

Answer: 3) Which element on adding to natural rubber makes it less sticky in hot weather and less hard in cold weather?

Answer: _____

4) What happens when an electron moves nearer to the nucleus of the atom?

Answer: Its energy decreases.

5) Which chemical causes Mina Mata disease?

Answer: _____

Physics

In Einstein's mass-energy equation, What is C?

Week 5 Day 2

Biology

Fill in the blanks with appropriate word.

1. Which is known as master gland in man? – **Pituitary gland**
2. What is the smallest structural and functional unit of nervous system? – _____
3. Which plant yields biodiesel or biofuel? – _____
4. Which cell organelles function as the power house of a living cell? – **Mitochondria**
5. Who invented penicillin? – _____

Chemistry

Give short answers.

1) Glass is made out of what?

Answer: _____

2) Name any two nuclei used to make an atom bomb:

Answer: _____

3) Which is considered to be an anomalous compound?

Answer: Water.

4) Bronze is an alloy of what?

Answer: _____

5) Which is the most widely used metal?

Answer: Iron.

Physics

Which device of the following converts light energy into electrical energy?

Week 5 Day 3

Biology

Encircle the correct answer.

1. Which of the following is a large blood vessel that carries blood away from the heart?

- A. Vein
- B. Artery
- C. Capillary
- D. Nerve

Ans. _____

2. Which of the following is not a member of the vitamin B complex?

- A. Thiamine
- B. Riboflavin
- C. Folic acid
- D. Ascorbic acid

Ans. D

3. Fungi are plants that lack:

- A. Oxygen
- B. Carbon dioxide
- C. Chlorophyll
- D. None of these

Ans. _____

4. What makes a reptile a reptile?

- A. Cold blooded
- B. Warm Blooded
- C. Non-Hearing
- D. Egg-laying

Ans. _____

5. Which blood vessels have the smallest diameter?

- A. Capillaries
- B. Arterioles
- C. Venules
- D. Lymphatic

Ans. A

Chemistry

Give short answers.

1. Can You Burn a Diamond?

Ans: _____

2. How Does the Sun Burn without Oxygen?

Sun is made mostly of hydrogen (besides helium), which is a highly flammable gas. But, as in the



case of planet Uranus, there is no oxygen at the Sun.

In classical terms, we need oxygen for a fire to burn. But the Sun is not actually on fire. Its heat and light come from nuclear fusion reactions, mainly combining hydrogen to make helium. This process does not require oxygen to happen.

3. Why the Planet Uranus, Rich in Methane and Hydrogen, does not burn?

Ans: _____

Physics

True /false? Potential Energy stored in a Dam's Water.

Week 6 Day 1

Biology

Encircle the correct answer.

1. Which of the following is an air-borne disease?

- A. Measles
- B. Typhoid
- C. Pink eye
- D. None of the above

Ans. _____

2. A yellow dust appears on the fingers, whenever we touch the middle of a flower. These tiny yellow grains are one of the most precious substances in nature because they contain the secret of plant life. What is this dust called?

- A. Pollen
- B. Sperm
- C. Spore
- D. Sporocyst

Ans. **A**

3. Which organ of the body produces the fluid known as bile?

- A. Liver
- B. Pancreas
- C. Gall bladder
- D. Kidney

Ans. _____

4. Which of the following hormones is a steroid?

- A. Oestrogen
- B. Glucagon
- C. Insulin
- D. Oxytocin

Ans. _____

5. Which one of the following is not a function of the liver?

- A. Regulation of blood sugar
- B. Enzyme activation
- C. Detoxification
- D. Reproduction

Ans. **D**

Chemistry

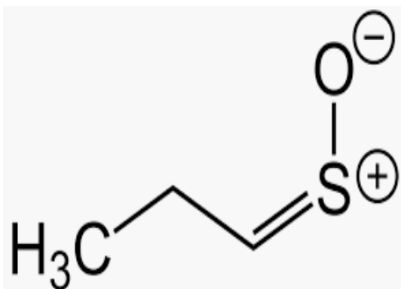
Give short answers.

1. Why Does Ice Float on Water?

Ans: _____

2. Why Do Onions Make You Cry?

A relatively complex process takes place when you cut an onion. This results on the release of propanethial-S-oxide, which is an irritant of the lachrymal glands, which release tears.



Propanethial-S-oxide

3. What Are Olympic Gold Medals Made Of?

They Olympic gold medals are not completely made of gold. In fact, they are made of at least 95% of silver, containing a minimum of 6 g of gold.

Gold is much more expensive than silver. However, thanks to this “tricky” alloy, a golden medal is just worth about \$550, while silver medal is around \$300.

Gold is around 100 times more expensive than silver, so a full-gold Olympic medal would cost \$30,000! That’s why they only add enough amount of gold to give the medal the characteristic golden color.

A bronze medal, made of cheap copper and zinc, is actually worth only \$2.



Physics

At what angle between force and displacement the work will be zero?

Week 6 Day 2

Biology

Encircle the correct answer.

1. Greatest number of Sweat glands are present in which part of the human body?

- A. Forehead
- B. Forearm
- C. Palm of the hand
- D. Back

Ans: _____

2. Vaccination was started by.....

- A. Jonas E. Salk
- B. Paul Muller

- C. Edward Jenner
- D. Robert Frost

Ans: C

3. Proteins are made up of

- A. Sugars
- B. Amino acids
- C. Fatty acids
- D. Nucleic acids

Ans: _____

4. Mention the source of Liver, milk, egg yolk, fish liver oil?

- A. Vitamin A
- B. Vitamin B2
- C. Vitamin D
- D. Vitamin C

Ans: C

5. Heart is made up of

- A. Non-striated muscle
- B. Cardiac muscle
- C. Adipose tissue
- D. Striated muscle

Ans: _____

Chemistry

Give short answers.

1. What Makes Up >99% of the Normal Matter in the Universe?

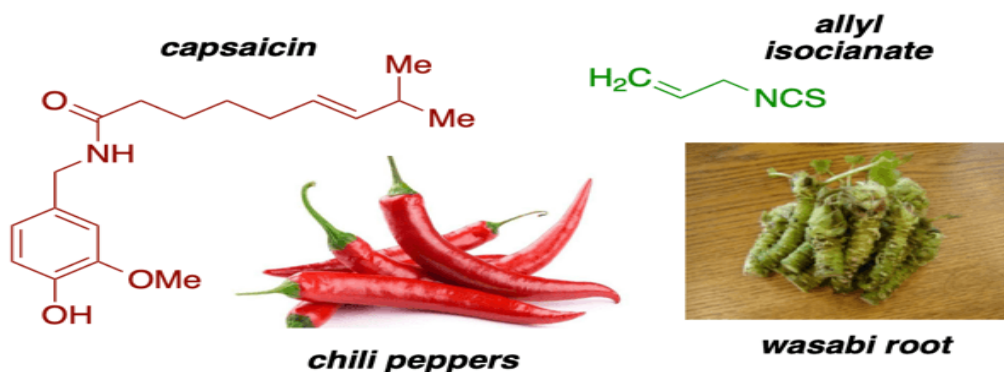
Helium and hydrogen make up most of the universe. Both of them account for 98% of all matter, being roughly 73% hydrogen, and 25% helium. All the other elements make up the remaining 2% of matter. The next in the list is oxygen, making up for a tiny 0.05%. Other atomic components in this order of magnitude are neon, nitrogen, carbon and silicon.

2. What Is a Rather Useless Property of DNA that Everyone Knows About?

Ans: _____

3. What Is Hot Spicy and Cold Spicy?

Peppers and similar “hot spicy” food are so due to a molecule called capsaicin. The heat of the spiciness is measured by the Scoville Scale. On the other hand, “colder” spicy condiments such as wasabi, but also mustard or horseradish, the molecule to blame is allyl isothiocyanate. The receptors for allyl isothianate can make your body sting, burn cough or choke. It gives a feeling of a less hot or “cold” spicy.



Physics

What will be the velocity of geostationary satellite with respect to earth?

Week 6 Day 3

Biology

Encircle the correct answer.

8. Name the corona virus that kills human?

- A. AIDS
- B. FAIDS
- C. SARS
- D. HIV

Ans: _____

9. In which part of the body digestion of protein starts?

- A. Mouth
- B. Stomach
- C. Duodenum
- D. Intestine

Ans: B

3. Hepatitis is a general term for a disease that is caused by:

- A. Viruses
- B. Bacteria
- C. Parasites
- D. All the above

Ans: _____

4. Which among the following is not an example of carbohydrate?

- A. Maltose
- B. Fructose
- C. Glycogen
- D. Glycine

Ans: D

5. Which one of the following is not correctly matched?

- A. Haemoglobin: Skin
- B. Vitamin C: Scurvy
- C. Carbohydrate: Potato
- D. Fat: Butter

Ans: _____

Chemistry

Give short answers.

1. How Long Can Gold Wires Go?

Ans: _____

2. Where Did Most of the Oxygen in the Atmosphere Come From?

Surprisingly, 20% of the world's oxygen is produced in the Amazon Rain forest. This is the largest rainforest on Earth. Its Basin covers 40% of the South American continent.

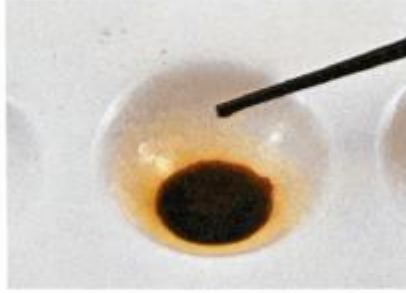


3. Which Are the Only Elements Liquid at Room Temperature?

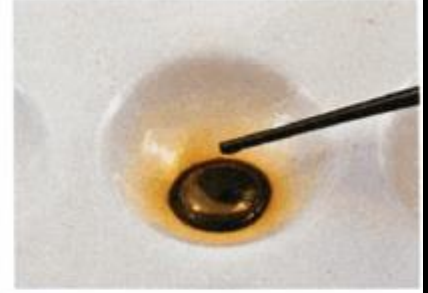
The only pure elemental compounds (which are, compounds made of atoms of only one element) that are liquid at room temperature are Br₂ (fuming orange liquid), and mercury (a metal).



(a) Liquid mercury



(b) Liquid bromine (note the bromine vapor as well)



(c) A few drops of bromine have been added to the mercury

Liquid mercury, liquid bromine, and its reaction.

Physics

What is orbital speed of a low orbit satellite?

جنرل نالج

اردو
پہلا ہفتہ

سوال نمبر ۱: اردو ادب کی اصناف نثر کون کون سی ہیں؟
سوال نمبر ۲: اردو ادب کی اصناف نظم کون کون سی ہیں؟
دوسرا ہفتہ

سوال نمبر ۱: اردو زبان کے آغاز کے بارے چند جملے لکھیے۔
سوال نمبر ۲: مرزا غالب کو اردو ادب میں کیا حیثیت حاصل ہے؟

تیسرا ہفتہ

سوال نمبر ۱: علامہ اقبال کے کوئی سے ۳ اشعار لکھیے۔
سوال نمبر ۲: علامہ اقبال ملی شاعری کی بہترین مثال ہیں۔ وضاحت کیجیے

چوتھا ہفتہ

سوال نمبر ۱: غزل کے موضوعات کون کون سے ہیں؟
سوال نمبر ۲: کسی غزل کا مطلع اور مقطع لکھیے۔

پانچواں ہفتہ

سوال نمبر ۱: اردو غزل کے پانچ شعرا کے نام لکھیے۔
سوال نمبر ۲: مرزا غالب کی ۵ تصانیف کے نام لکھیے
چھٹا ہفتہ

سوال نمبر ۱: کرونا وائرس سے بچنے کے لیے آپ نے کون سے حفاظتی اقدامات کیے؟

سوال نمبر ۲: دبشت گردی کے خاتمے کے لیے آپ کیا کردار ادا کر سکتے ہیں؟

اسلامیات

جنرل نالج (سوالات)

پہلا ہفتہ

س۔ کیا دولت خرچ کرنے سے دلوں میں محبت پیدا ہو سکتی ہے؟
س۔ نبی ﷺ اور مومنین کے لیے کس کی ذات پر بھروسہ کرنا کافی ہے؟

دوسرا ہفتہ

س۔ جہاد کی پانچ اقسام کے نام لکھیں۔

س۔ جہاد با لعال سے کیا مراد ہے؟

تیسرا ہفتہ

س۔ ہجرت سے کیا مراد ہے؟

س۔ رشتہ داروں کے حقوق کے بارے میں ایک آیت کا ترجمہ لکھیں۔

چوتھا ہفتہ

سوال نمبر ۱۔ رشوت لینے اور دینے والے کا انجام کیا ہوگا؟

سوال نمبر ۲۔ انفاق فی سبیل اللہ سے کیا مراد ہے؟

پانچواں ہفتہ

سوال نمبر ۱۔ علم کے بارے میں سورۃ العلق کی پہلی پانچ آیات کا ترجمہ لکھیں۔

سوال نمبر ۲۔ رب زدنی علما کا ترجمہ لکھیں۔

چھٹا ہفتہ

سوال نمبر ۱۔ حُسنِ اخلاق کے درجے پر سب سے فضیلت والی شخصیت پر تین سطریں تحریر کریں۔

سوال نمبر ۲۔ اخلاق کی کتنی اقسام ہیں؟