



# **DELHI PUBLIC SCHOOL, JAGDALPUR**

**(Under the aegis of the DPS Society, New Delhi)**

## **Summer Vacation Homework 2022-23**

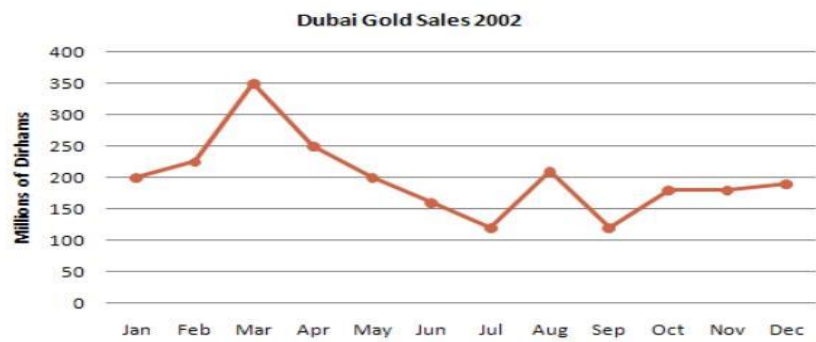
### **CLASS - X**

#### **Instructions:**

1. Students should complete daily given tasks.
2. All Vocational Home Works to be done in one single copy of 150 pages.
3. Tasks are designed for 5 days in a week.
4. Submit your copy to your class teacher on the re-opening day.
5. Note book should be properly maintained.

## ENGLISH LANGUAGE & LITERATURE

Date & Day	Task(s)																
9- May Monday	<p>POSTER MAKING (English notebook)</p> <ol style="list-style-type: none"> <li>a) Design a poster which creates awareness to donate organs</li> <li>b) Make a poster on "Save Water"</li> <li>c) Design a poster about the importance of voting</li> </ol>																
10-May Tuesday	<p style="text-align: center;"><b>FORMAL LETTER WRITING</b>(English notebook)</p> <ol style="list-style-type: none"> <li>1. You are Rachna/Raghu, 15 Mall Road, Agra. You happen to see the following news item in a newspaper. Write a letter in about 100-200 words to the editor of the newspaper about your views on the matter. New Delhi : The Supreme Court has passed an order that it is the responsibility of every citizen to look after their aged parents. If they fail ,they will have no right of inheritance.</li> <li>2. You are Rizwan Ali, resident of Blue Mount Colony, Mumbai. Write a letter to the editor of the national daily , drawing the attention of the concerned authorities to the deteriorating law and order situation in the city.</li> </ol>																
11-May Wednesday	Write all possible rules of Subject-Verb Concord with two examples (English notebook)																
12-May Thursday	<p>Analytical paragraph( English notebook)</p> <ol style="list-style-type: none"> <li>1. The pie chart shows the proportion of people from different households living in poverty in the UK in 2021. Write an analytical paragraph to describe the information in 100-120 words.</li> </ol> <div style="text-align: center;"> <p><b>Proportion of people from each household type living in poverty</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Data from Pie Chart: Proportion of people from each household type living in poverty</caption> <thead> <tr> <th>Household Type</th> <th>Proportion (%)</th> </tr> </thead> <tbody> <tr> <td>Single aged persons</td> <td>7%</td> </tr> <tr> <td>Aged Couple</td> <td>5%</td> </tr> <tr> <td>Single without children</td> <td>24%</td> </tr> <tr> <td>Couple without children</td> <td>9%</td> </tr> <tr> <td>Sole Parents</td> <td>26%</td> </tr> <tr> <td>Couple with children</td> <td>15%</td> </tr> <tr> <td>All households</td> <td>14%</td> </tr> </tbody> </table> </div>	Household Type	Proportion (%)	Single aged persons	7%	Aged Couple	5%	Single without children	24%	Couple without children	9%	Sole Parents	26%	Couple with children	15%	All households	14%
Household Type	Proportion (%)																
Single aged persons	7%																
Aged Couple	5%																
Single without children	24%																
Couple without children	9%																
Sole Parents	26%																
Couple with children	15%																
All households	14%																
13-May Friday	<p>Analytical paragraph (English notebook)</p> <ol style="list-style-type: none"> <li>2. The graph given shows estimated sales of gold in Dubai in 2020 .write an analytical paragraph describing the line graph in around 150 words.</li> </ol>																



<p>16- May Monday</p>	<p>1. Make tense chart (Use chart paper)</p>								
<p>17-May Tuesday</p>	<p>1. write down the definition of these terms.( English notebook)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. Simile</td> <td style="width: 50%; border: none;">e. Anecdote</td> </tr> <tr> <td style="border: none;">b. Metaphor</td> <td style="border: none;">f. Anaphora</td> </tr> <tr> <td style="border: none;">c. Irony</td> <td style="border: none;">g. Onomatopoeia</td> </tr> <tr> <td style="border: none;">d. Oxymoron</td> <td style="border: none;">h. Alliteration</td> </tr> </table>	a. Simile	e. Anecdote	b. Metaphor	f. Anaphora	c. Irony	g. Onomatopoeia	d. Oxymoron	h. Alliteration
a. Simile	e. Anecdote								
b. Metaphor	f. Anaphora								
c. Irony	g. Onomatopoeia								
d. Oxymoron	h. Alliteration								
<p>18-May Wednesday</p>	<p>1. What do you mean by determiner? What are the different types of determiners? Which are they? (English notebook)</p>								
<p>19-May Thursday</p>	<p>Answer the following questions in 40 words. ( Notebook)</p> <ol style="list-style-type: none"> <li>Who does Lencho have complete faith in ?</li> <li>Why did the postmaster send money to Lencho?</li> <li>Who does Lencho think has taken the rest of the money?</li> <li>There are two kinds of conflicts in the story. Which are the two different conflicts?</li> <li>Why did Lencho say the raindrops are like new coins?</li> <li>What were Lencho's feelings when the rain stopped?</li> </ol>								
<p>20-May Friday</p>	<p>Art -integrated project - A comparative study between Chhattisgarh and Gujarat. Complete the task between May 20-May 25. (Unruled A4 sheet)</p> <ol style="list-style-type: none"> <li>Festivals of Chhattisgarh and Gujarat</li> <li>Geographical features of CG &amp; GJ</li> <li>Cuisines of CG &amp; GJ</li> <li>Dance forms of CG &amp; GJ</li> <li>Costumes of CG &amp; GJ</li> <li>Basic Art forms of CG &amp; GJ</li> </ol>								
<p>23- May Monday</p>	<p>Art Integrated project</p>								
<p>24-May Tuesday</p>	<p>Art Integrated project</p>								
<p>25-May Wednesday</p>	<p>Art integrated project</p>								
<p>26-May Thursday</p>	<p>Answer the given questions.</p> <ol style="list-style-type: none"> <li>What is the dust of snow? What does the poet say has changed his mood?</li> <li>What are the negative concepts used in the poem?</li> <li>What is the theme of the poem?</li> <li>What do the fire and ice represent ?</li> <li>What is the rhyming scheme of the poem " Fire and Ice"?</li> </ol>								

27-May Friday	<p>Answer the given questions in 40 -60 words</p> <ol style="list-style-type: none"> <li>1. What do you mean by Apartheid?</li> <li>2. What was the speciality of the date May 10 1994?</li> <li>3. What do military generals do on May 10 1994?</li> <li>4. What was not so unmindful?</li> <li>5. What is Courage according to Nelson Mandela?</li> </ol>
30- May Monday	<p>Use suitable relative clause.</p> <ol style="list-style-type: none"> <li>1. I'm looking for a secretary _____ can handle computers well.</li> <li>2. She has a son _____ is a doctor.</li> <li>3. I sent a letter _____ arrived three weeks later.</li> <li>4. The woman _____ lives next door works in a bank.</li> <li>5. I met Ruby in town yesterday _____ was a nice surprise .</li> <li>6. She could not decide _____ pie she liked the better.</li> <li>7. Very few people _____ she met were significant to her.</li> <li>8. The man _____ is standing there is a famous writer.</li> <li>9. I bought a cell pen _____ has internet access.</li> <li>10. An hotel is a place _____ people stay when they are on holiday.</li> </ol>
31-May Tuesday	<p>Answer the following questions.</p> <ol style="list-style-type: none"> <li>1. What kind of person do you think the narrator is? Is he tactful as well as full of common sense?</li> <li>2. Who is the narrator of the story "A triumph of surgery"?</li> <li>3. Do you think there are also parents like Mrs.Pumphrey? How do they damage their children's health?</li> <li>4. Why did the narrator think to keep Tricky as a permanent guest?</li> </ol>
1-Jun Wednesday	<p>The above given table shows details about the internet activities for six categories for different age groups. Write an analytical paragraph for the table in around 150 to 200 words. (English notebook)</p>
2-Jun Thursday	<p>Answer the following questions in 60 words. ( English notebook)</p> <ol style="list-style-type: none"> <li>1. Why doesn't Anil hand the thief to the police? In What ways Anil is different from such employers?</li> <li>2. "He knew.But neither his lips nor his eyes showed anything." What did Anil know? What was his reaction?</li> <li>3. How did the thief think Anil would react to the theft?</li> <li>4. What does the thief say about the reactions of people when they are robbed?</li> </ol>
3- Jun Friday	<ol style="list-style-type: none"> <li>1. Do you think there is colour prejudice in our own country? Write a paragraph about 100-150 words about this.</li> </ol>
6- Jun Monday	<ol style="list-style-type: none"> <li>1. Write a poem comparing a lion in the cage with the lion in the wilderness. (16-20 lines)</li> </ol>
7-Jun Tuesday	<ol style="list-style-type: none"> <li>1. What do you mean by homophones? Write examples (10 -15 examples)</li> </ol>
8-Jun Wednesday	<p>Write paragraphs on</p> <ol style="list-style-type: none"> <li>a. Causes of poverty and means of overcoming it</li> <li>b. Discrimination based on gender, religion, class etc.</li> </ol>
9-Jun Thursday	<ol style="list-style-type: none"> <li>1. You are Sakshi/Surya, the hostel warden , Blue Bell Residential School, Vrindavan, U.P. Write a letter to the sales manager , Bharat Electronic and Domestic Appliances ,New Delhi ,placing an order for fans , geysers, microwaves and air conditioners to purchase for the hostel. Also ask for the discount permissible on the purchase.</li> </ol>
10-Jun Friday	<ol style="list-style-type: none"> <li>1. Explain the use of definite article with proper nouns. Give examples too.</li> </ol>

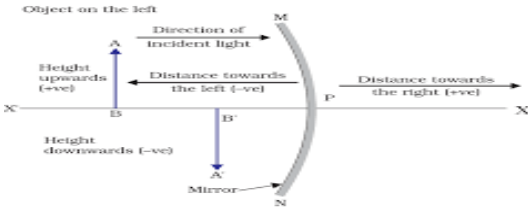
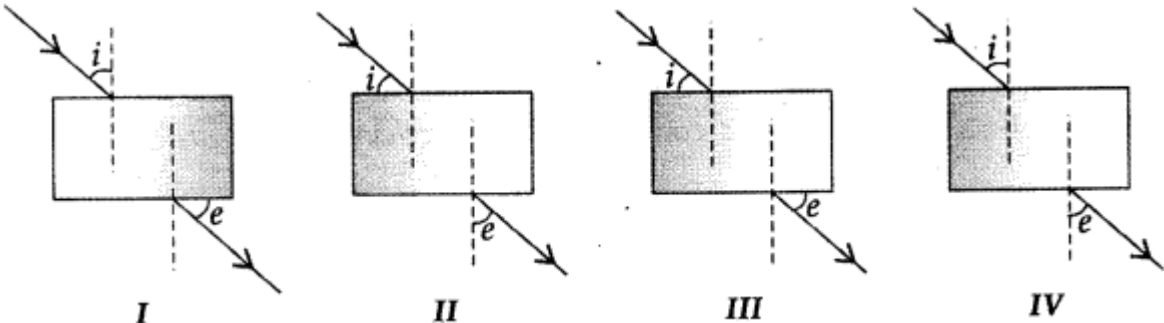
## BIOLOGY

Date & Day	Task(s)
9- May Monday	1) Why is assimilation of food necessary? 2) What will happen if the stomach stops producing mucus? 3) What are enzymes? How are they different from hormones?
10-May Tuesday	4) Name a gland which produces both enzymes and hormones. 5) Write down the differences between stomata and lenticels.
11-May Wednesday	6) Why is diffusion not enough for transport of gases in humans? 7) How does fish respire and exchange gases? 8) What constitutes the chest cavity in humans?
12-May Thursday	9) Which property of yeast is exploited in the alcohol industry? Explain 10) Why is the rate of breathing faster in aquatic organisms than in terrestrial organisms?
13-May Friday	Activity 0.1- Take warm sugar solution in a glass, mix about a teaspoon of dry yeast to the water and stir vigorously.. Cover and keep for some time. Note down the time taken for the yeast to get activated. Which phenomenon is demonstrated here? How can you use this activated yeast?
16- May Monday	Activity 0.2- Visit a park nearby and observe the plants around. Notice the presence of lenticels on the bark of the plants. Record your observation. Were all the plants having such lenticels which could be seen? What was common in the plants where lenticels were observed? What was common in the plants where such lenticels were not observed?
17-May Tuesday	Activity 0.2 continued
18-May Wednesday	11) What are the respiratory organs in the following organisms- earthworm, frog, rattlesnake, crocodile 12) How can a frog survive both in water and in land?
19-May Thursday	13) Pharynx is the common passage for food and air. However when we swallow the food it does not enter the trachea, why? 14) Which gland is present near to the larynx attached to the trachea? 15) What is the function of the gland?
20-May Friday	16) What will happen if there is fluid accumulation in the larynx? 17) Name any disease that can affect the Bronchi. State its symptoms and causes.
23- May Monday	18) Why is smoking so harmful? How does it affect our respiratory tract? 19) State the function of alveolar sacs present in the lungs. 20) What will happen if the amount of haemoglobin in the blood decreases?
24-May Tuesday	Project A- Construct a project on any disease that affects the intestine. Write its symptoms, causes, prevention and cure. Paste relevant pictures.
25-May Wednesday	Project A continued
26-May Thursday	Project A continued
27-May Friday	21) Why do divers and mountaineers use oxygen cylinder? 22) How does volume and pressure affect breathing in humans?
30- May Monday	23) What is the average breathing rate in humans? 24) Where are the intercostal muscles found? State their role in breathing.

31-May Tuesday	Activity 0.4- Record the rate of your breathing at rest. Similarly record the rate of breathing of your parents, grandparents (if available) and siblings. Notice the differences in the rate. What do you think is the reason for such differences? Explain your observation
1-Jun Wednesday	Activity 0.4 continued
2-Jun Thursday	25)What is the function of the pleural membrane found surrounding the lungs? 26)Why is the right lung three lobed while the left lung two lobed? 27)How does the abdominal cavity and thoracic cavity remain separated from each other?
3- Jun Friday	Activity 0.5- Construct a working model of breathing in humans.
6Jun Monday	Activity 0.5 continued
7-Jun Tuesday	Activity 0.5 continued
8-Jun Wednesday	28)How do the roots of the plants found in waterlogged marshy areas respire? 29)Name any place in India where such plants are found. 30)Where does maximum absorption of water from the food occur in the human digestive system?
9-Jun Thursday	31)How is the digestive system of a cow different from that of humans? 32)What type of food do you think are easily digested and what takes a long time to get digested? Explain your answer
10-jun Friday	33)Why is breathing through the nose better than breathing through the mouth? 34)Some people start breathing through their mouth on lying down. Why is it so? Does it have any health hazard? Explain.

## PHYSICS

Date & Day	Task(s)
9- May Monday	Write any one observation from everyday life which show us that light travels in a straight line.
10-May Tuesday	What are some examples of light refraction and refraction in our daily life?
11-May Wednesday	List four characteristics of the images formed by plane mirrors
12-May Thursday	State the two laws of reflection of light
13-May Friday	Which type of mirror is used to give erect and enlarged image of an object?
16- May Monday	What is the relation connecting focal length and radius of a spherical mirror?
17-May Tuesday	Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray which is directed parallel to the principal axis of a convex mirror. Mark on it the angle of incident and the angle of reflection.
18-May Wednesday	Why do we prefer a convex mirror as a rear view mirror in vehicles?

19-May Thursday	Which mirror, concave or convex always converges the light rays?
20-May Friday	<p>Read the following and answer questions: While dealing with the reflection of light by spherical mirror set of sign convention is followed. In this convention, the pole (P) of the mirror is taken as the origin. The object is placed to the left of the mirror. All distance measured to the right of the origin is taken positively. Distance to the left is measured negative. All distance parallel to the principle is measured from the pole.</p>  <p>a) The ratio of the height of an image to the height of an object known as  a. magnification    b. lateral displacement    c. refractive index    d. none of the above</p> <p>b) If the magnification has a plus sign then the image is _____ and _____.  a. virtual; erect    b. real; erect    c. virtual; inverted    d. real; inverted</p>
23- May Monday	Which type of mirror is used to give erect and enlarged image of an object?
24-May Tuesday	<p>An object 4.0 cm in size, is placed 25.0 cm in front of a concave mirror of focal length 15.0 cm.</p> <p>a) At what distance from the mirror should a screen be placed in order to obtain a sharp image?</p> <p>b) Find the size of the image.</p>
25-May Wednesday	<p>A student does the experiment on tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. He can get a correct measure of the angle of incidence and the angle of emergence by following the labelling indicated in figure:</p> 
26-May Thursday	Write five applications of concave and convex mirror.
27-May Friday	<p>A student holding a mirror in his hand directed the reflecting surface of the mirror towards the Sun. He then directed the reflected light on to a sheet of paper held close to the mirror.</p> <p>a) What should he do to burn the paper?</p> <p>b) Which type of mirror does he have?</p> <p>c) Will he be able to determine the approximate value of focal length of this mirror from this activity? Give reason and draw ray diagram to justify your answer in this case.</p>
30- May Monday	Differentiate between a beam from a ray.
31-May Tuesday	Which lens, concave or convex always converges the light rays?
1-Jun Wednesday	How is the refractive index of a medium related to the speed of light?

2-Jun Thursday	Draw a ray diagram in each of the following cases to show the formation of image, when the object is placed: a) between optical centre and principal focus of a convex lens. b) at 2 F of a convex lens.
3- Jun Friday	Draw correct ray diagrams showing image formation by lenses for different positions of the object.
6- Jun Monday	Does refractive index vary with colour of light?
7- Jun Tuesday	A lemon kept in water in a glass tumbler appears to be bigger than its actual size, when viewed from the sides. Explain why it so appears?
8- Jun Wednesday	Write applications of concave lens.
9- Jun Thursday	Name the type of mirror used in the following situations: (i) Headlights of a car (ii) Rear-view mirror of vehicles (iii) Solar furnace Support your answer with reason.
10- Jun Friday	Write five applications of convex lens.

## CHEMISTRY

Date & Day	Task(s)
9- May Monday	What is hydro-carbon and their classification?
10-May Tuesday	Explain Saturated and Unsaturated Hydro-Carbon.
11-May Wednesday	Give the difference between Covalent and Ionic bond.
12-May Thursday	Explain the versatile nature of carbon.
13-May Friday	Draw the electron dot Structure of any ten Covalent Compound.
16- May Monday	Draw the homologous series of alkane. (Up to ten carbon)
17-May Tuesday	Draw the homologous series of alkene. (Up to ten carbon)
18-May Wednesday	Draw the homologous series of alkyne. (Up to ten carbon)
19-May Thursday	What are allotropes of carbon?
20-May Friday	Explain any five difference between diamond and graphite.
23- May Monday	What are functional group? Explain their structure and IUPAC name.



24-May Tuesday	What are soap? Classify them.
25-May Wednesday	Explain the method for the preparation of soap in the chemistry lab.
26-May Thursday	What do you mean by hard water and soft water?
27-May Friday	Give any five uses of vinegar in our daily life.
30- May Monday	Write the name of ten acids and bases.
31-May Tuesday	What are metals and non-metals? Classify them.
1-Jun Wednesday	Give any five differences between metals and non-metals on the basis of the physical properties.
2-Jun Thursday	What are metalloids? Give any five examples.
3- Jun Friday	Write the name of any ten compounds used in our daily life.
6- Jun Monday	Write the composition of any ten Alloys.
7- Jun Tuesday	Give any five methods to prevent the metal from rusting.
8- Jun Wednesday	What are strong acid and strong base? Give any three examples.
9- Jun Thursday	What are salts? Give any ten names of its.
10- Jun Friday	Give any two chemical test to distinguish between acid and base.

## SOCIAL SCIENCE

Date & Day	Task(s)
9- May Monday	Q1. What is strip cropping? Q2. Which soil is best for cotton cultivation? Q3. Where was the first International Earth Summit was held?
10-May Tuesday	Q4. State the importance of Rio Convention. Q5. How do rocks plays an important role in the formation of soil?
11-May Wednesday	Q6. Explain any three steps that can be taken to solve the problems of land degradation. Q7. What are the different factors that determine land use?
12-May Thursday	Q8. Why does the pattern of net sown area vary from one state to another? Q9. How has technical and economic development led to more consumption of resources?
13-May Friday	Q10. Provide a suitable classification of resources on the basis of ownership. Mention any features of any three types of such resources
16- May Monday	Q11. Which region of India is known as Basalt region? Q12. How have technical and economic development led to more consumption of resources?

17-May Tuesday	Q13. What is the full form of UNCED? Q14. What are Gullies?
18-May Wednesday	Q15. What does the term 'Sustainable Economic Development' mean? How can we eradicate irrational consumption and over-utilization of resources?
19-May Thursday	Q16. Define the following terms: 1. Current Fallow Land 2. Other than current fallow 3. Culturable waste land
20-May Friday	Q17. Distinguish between Khadar and Bangar. Name the states where alluvial soils are found.
23- May Monday	Q18. Elucidate the views of Gandhiji regarding the conservation of resources.
24-May Tuesday	Q19. Explain any three factors responsible for soil formation.
25-May Wednesday	Q20. Discuss anthropogenic factors of land degradation.
26-May Thursday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file. Decorate the first page. Mentioning the Name, Roll.No., Subject, School Name, Subject Teacher Name.
27-May Friday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
30- May Monday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
31-May Tuesday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
1-Jun Wednesday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
2-Jun Thursday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
3- Jun Friday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
6- Jun Monday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
7- Jun Tuesday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
8- Jun Wednesday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
9- Jun Thursday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file
10- Jun Friday	Do the given project work on the Economics Unit-5 "Consumer Rights". Note: Do the given work in a project file

## MATHEMATICS

Date & Day	Task(s)
9- May Monday	<p>1. If <math>\frac{p}{q}</math> is a rational number (<math>q \neq 0</math>), what is condition on <math>q</math> so that the decimal representation of <math>\frac{p}{q}</math> is termination? <span style="float: right;">[2008]</span></p> <p>2. Show that <math>2 - \sqrt{3}</math> is an irrational number. <span style="float: right;">[2008]</span></p>
10-May Tuesday	<p>1. The decimal expansion of the rational number <math>\frac{43}{2^4 \times 5^3}</math>, will terminate after how many places of decimals? <span style="float: right;">[2009]</span></p> <p>2. Write whether the rational number <math>\frac{51}{1500}</math> will have a terminating decimal expansion or a non-terminating repeating decimal expansion. <span style="float: right;">[2009]</span></p>
11-May Wednesday	<p>1. Prove that <math>\sqrt{5}</math> is an irrational number. <span style="float: right;">[2009]</span></p> <p>2. Find the [HCF×LCM] for the numbers 100 and 190. <span style="float: right;">[2009]</span></p>
12-May Thursday	<p>1. Check whether <math>6^n</math> can end with the digit 0 for any natural number <math>n</math>? <span style="float: right;">[2010]</span></p> <p>2. Write whether <math>\frac{2\sqrt{45}+3\sqrt{20}}{2\sqrt{5}}</math> on simplification gives a rational or irrational number. <span style="float: right;">[2010]</span></p>
13-May Friday	<p>1. Prove that <math>\sqrt{2}</math> is an irrational number. <span style="float: right;">[2010]</span></p> <p>2. If the HCF of 85 and 153 is expressible in the form <math>85n - 153</math>, then value of <math>n</math> is _____ <span style="float: right;">[2011]</span></p>
16- May Monday	<p>1. Prove that <math>\frac{2\sqrt{3}}{5}</math> is an irrational number. <span style="float: right;">[2011]</span></p> <p>2. Show that <math>4^n</math> can never end with the digit zero for any natural number <math>n</math>. <span style="float: right;">[2011]</span></p> <p>3. Find whether the pair of numbers 847, 2160 are coprimes or not. <span style="float: right;">[2012]</span></p>
17-May Tuesday	<p>1. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then find the other number. <span style="float: right;">[2012]</span></p> <p>2. If <math>\frac{241}{4000} = \frac{241}{2^m \times 5^n}</math>, find the values of <math>m</math> and <math>n</math> where <math>m</math> and <math>n</math> are non-negative integers. Hence write its decimal expansion without actual division. <span style="float: right;">[2012]</span></p>
18-May Wednesday	<p>1. Find the LCM and HCF of 336 and 54 and verify that LCM×HCF=Product of the two numbers. <span style="float: right;">[2012]</span></p> <p>2. Use Fundamental Theorem of Arithmetic to find HCF of 870 and 225. <span style="float: right;">[2013]</span></p> <p>3. Explain <math>5 \times 4 \times 3 \times 2 \times 1 + 3</math> is a composite number. <span style="float: right;">[2013]</span></p>
19-May Thursday	<p>1. If HCF (96, 404) = 4, then LCM (96, 404) is _____ <span style="float: right;">[2014]</span></p> <p>2. Express 5050 as product of its prime factors. Is it unique? <span style="float: right;">[2014]</span></p> <p>3. Three bells toll at intervals of 12 minutes, 15 minutes and 18 minutes respectively. If they start tolling together, after what time will they next toll together? <span style="float: right;">[2015]</span></p>

20-May Friday	<p>1. Two tankers contain 850 litres and 680 litres of petrol respectively. Find the maximum capacity of a container which can measure the petrol of either tanker in exact number of times. <b>[2016]</b></p> <p>2. Find the largest number that will divide 398, 436 and 542 leaving remainder 7, 11 and 15 respectively. <b>[2017]</b></p>
23- May Monday	<p>1. What is the HCF of the smallest prime number and the smallest composite number? <b>[2018]</b></p> <p>2. Given that <math>\sqrt{2}</math> is irrational, prove that <math>(5 + 3\sqrt{2})</math> is an irrational number. <b>[2018]</b></p>
24-May Tuesday	<p>1. Find the value of <math>k</math> for which the system of equation <math>8x + 5y = 9</math> and <math>kx + 10y = 15</math> has no solution. <b>[2019]</b></p> <p>2. For what value of <math>k</math> will the following system of linear equations have an infinite number of solutions: <math>2x + 3y = 2</math>; <math>(k + 2)x + (2k + 1)y = 2(k-1)</math>? <b>[2000]</b></p>
25-May Wednesday	<p>1. Solve the equations graphically and shade the region between two lines and x-axis. <math>2x + 3y = 12</math> and <math>x - y = 1</math>. <b>[2001]</b></p> <p>2. Find the values of <math>p</math> and <math>q</math> for which the following system has infinite solutions. <math>2x + 3y = 7</math> and <math>(p + q)x + (2p - q)y = 21</math>. <b>[2001]</b></p>
26-May Thursday	<p>1. For what value of <math>a</math>, the system of linear equations: <math>ax + 3y = a - 3</math> and <math>12x + ay = a</math> has no solution? <b>[2003]</b></p> <p>6. Solve the following system of linear equations graphically: <math>2x - 3y = 13</math> and <math>3x - 4y = 1</math>. Does the point <math>(3, 2)</math> lie on any of the lines? Write its equation. <b>[2003]</b></p>
27-May Friday	<p>1. Solve for <math>x</math> and <math>y</math>: <math>\frac{4}{x} + 5y = 7</math> and <math>\frac{3}{x} + 4y = 5</math> <b>[2003]</b></p> <p>2. Solve for <math>x</math> and <math>y</math>: <math>6(ax + by) = 3a + 2b</math>, <math>6(bx - ay) = 3b - 2a</math> <b>[2004]</b></p>
30- May Monday	<p>1. Solve the following system of linear equations graphically <math>5x - 6y + 30 = 0</math>, <math>5x + 4y - 20 = 0</math>. Also, find the vertices of the triangle formed by the above two lines and x-axis. <b>[2004]</b></p> <p>2. Solve the following system of equations graphically: <math>2x - y = 4</math>; <math>3y - x = 3</math>. Find the points where the lines meet the y-axis. <b>[2005]</b></p>
31-May Tuesday	<p>1. Solve for <math>x</math> and <math>y</math>: <math>47x + 31y = 63</math>; <math>31x + 47y = 15</math> <b>[2006]</b></p>
1-Jun Wednesday	<p>1. Solve for <math>x</math> and <math>y</math>: <math>\frac{2x}{a} + \frac{y}{b} = 2</math> and <math>\frac{x}{a} - \frac{y}{b} = 4</math> <b>[2007]</b></p> <p>2. Solve for <math>x</math> and <math>y</math>: <math>8x - 9y = 6xy</math> and <math>10x + 6y = 19xy</math> <b>[2007]</b></p>
2-Jun Thursday	<p>1. Solve for <math>x</math> and <math>y</math>: <math>\frac{5}{x-1} + \frac{1}{y-2} = 2</math> and <math>\frac{6}{x-1} - \frac{3}{y-2} = 1</math> <b>[2009, 2012, 2014]</b></p> <p>2. Without drawing the graph, find out whether the lines representing the following pair of linear equations intersect at a point, are parallel or coincident: <math>9x - 10y = 21</math>; <math>\frac{3}{2}x - \frac{5}{3}y = \frac{7}{2}</math> <b>[2009]</b></p>

3- Jun Friday	<p>1. For what value of <math>p</math> will the following pair of linear equations have infinitely many solutions? <math>(p - 3)x + 3y = p; + py = 12.</math> <b>[2010]</b></p> <p>2. Solve for <math>x</math> and <math>y</math>: <math>99x + 101y = 499; 101x + 99y = 501</math> <b>[2011]</b></p>
6- Jun Monday	<p>1. For what value of <math>k</math> will the pair of equations have no solution? <math>3x + y = 1; (2k - 1) + (k - 1)y = 2k + 1</math> <b>[2011, 2012]</b></p> <p>2. If the system of equations <math>6x + 2y = 3</math> and <math>kx + y = 2</math> has a unique solution, find the value of <math>k</math>. <b>[2013]</b></p>
7- Jun Tuesday	<p><b>ACTIVITY:</b> Represent the zeroes of the quadratic polynomial <math>3x^2 - x - 4</math> graphically.</p>
8- Jun Wednesday	<p><b>ACTIVITY:</b> Following are three pairs of linear equations in two variables to show different possibilities of solutions. Draw the linear pairs in graph and find whether Unique solution, No solution or Infinitely many solutions.</p> <p>(i) <math>2x - y + 1 = 0</math> and <math>x - 2y + 8 = 0</math> (Graph-1)</p> <p>(ii) <math>x - 2y - 5 = 0</math> and <math>3x - 6y + 15 = 0</math> (Graph-2)</p> <p>(iii) <math>2x + 3y - 6 = 0</math> and <math>4x + 6y - 24 = 0</math> (Graph-3)</p>
9- Jun Thursday	<p><b>Self-Assessment</b></p> <p>1. Solve the following system of linear equations: <math>35x + 23y = 209; 23x + 35y = 197</math></p> <p>2. For what value of <math>k</math>, the following system of equations will represent the coincident lines? <math>x + 2y + 7 = 0</math> and <math>2x + ky + 14 = 0</math></p>
10- Jun Friday	<p><b>Self-Assessment</b></p> <p>1. If <math>HCF(336, 54)=6</math>, find <math>LCM(336, 54)</math>.</p> <p>2. Show that <math>5\sqrt{6}</math> is an irrational number.</p> <p>3. An army contingent of 612 members is to march behind an army band of 48 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?</p>

## INFORMATION TECHNOLOGY

Date & Day	Task(s)
9- May Monday	Make a PowerPoint presentation on Global Warming.
10-May Tuesday	Make a google form and collect information from 5 houses about their daily expenses
11-May Wednesday	Make a banner for the school admission (Make in MS Word)
12-May Thursday	What is Communication Medium? (To be written in Notebook)
13-May Friday	What are the elements of communication? (To be written in Notebook)
16- May Monday	What are the ways to improve communication skills? (To be written in Notebook)

17-May Tuesday	Using Block coding in Makecode.org. Develop a Game and send me the video of your entire project in my whatsapp no.-7987296675	
18-May Wednesday		
19-May Thursday		
20-May Friday	<p>Make a project report on Communication Skills which will include the following topics</p> <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Importance of Communication</li> <li>3. Elements of Communication</li> <li>4. Types of Communication</li> <li>5. Parts of Speech</li> <li>6. Articles</li> </ol> <p>To be written in MS Word and submit the hardcopy as the school reopens</p>	
23- May Monday		
24-May Tuesday		
25-May Wednesday		
26-May Thursday		
27-May Friday		
30- May Monday		
31-May Tuesday		
1-Jun Wednesday		<p>Demonstrate and do the following in Word Processor: Insert an image to document from various sources</p> <ul style="list-style-type: none"> <li>• Modify, resize, crop and delete an image.</li> <li>• Create drawing objects • Set or change the properties of a drawing object</li> <li>• Resize and group drawing objects</li> <li>• Position the image in the text</li> </ul> <p>Video demonstration to be submitted in WhatsApp no. 7987296675</p>
2-Jun Thursday		
3- Jun Friday		
6- Jun Monday		
7-Jun Tuesday		
8-Jun Wednesday	<p>Explain the following Topic in notebook Network and its types.</p> <ul style="list-style-type: none"> <li>• Client Server Architecture, Peer to-peer (P2P) Architecture</li> <li>• internet</li> </ul> <p>World Wide Web</p> <ul style="list-style-type: none"> <li>• benefits of networking</li> <li>• internet, getting access to internet</li> <li>• internet terminology</li> <li>• Some of the commonly used Internet connectivity options</li> <li>• Data transfer on the Internet</li> </ul>	
9-Jun Thursday		
10-Jun Friday		

## HINDI

Date & Day	Task(s)
9- May Monday	आज की अपनी पूरी दिनचर्या अपनी डायरी में लिखिए
10-May Tuesday	कोरोना महामारी के बाद जब आपका स्कूल खुला और आप स्कूल आए तो आपको कैसा लगा ? अपने अनुभव लिखिए ।
11-May Wednesday	क्या अब भी कोरोना से बचाव जरूरी है ? यदि हाँ तो क्यों ?
12-May Thursday	ग्रीष्मऋतु में हमारा खान-पान कैसा होना चाहिए लिखिए ।
13-May Friday	मैना छत्तीसगढ़ राज्य की राजकीय पक्षी हैं इसके विषय में जानकारी एकत्र कर अपनी उत्तर पुस्तिका में लिखिए ।
16- May Monday	छत्तीसगढ़ राज्य का राजकीय गीत कौन सा है ? इसके रचयिता कौन हैं ? उनके बारे में जानकारी एकत्र कर अपनी उत्तर पुस्तिका में लिखिए ।
17-May Tuesday	अपनी इच्छा से कोई भी 25 मुहावरें लिखकर उनका वाक्य में प्रयोग कीजिए
18-May Wednesday	ध्वज , दूध , नदी , बादल , पर्वत , सुगंध स्त्री ,चमक , शरीर , विघ्न , किनारा , कमल का दो-दो पर्यायवाची लिखिए ।
19-May Thursday	जीवन संघर्ष है स्वप्न नहीं पर 150 शब्दों में अनुच्छेद लिखिए ।
20-May Friday	बड़े भाई साहब अध्याय से प्रश्न क्रमांक 1,2,3, और 4 का 25 से 30 शब्दों में उत्तर लिखिए
23- May Monday	क्या वर्तमान में पत्रों की आवश्यकता है हाँ अथवा ना में अपने तर्क लिखिए ।
24-May Tuesday	डायरी का एक पन्ना अध्याय से प्रश्न क्रमांक 1,2,3, और 4 का 25 से 30 शब्दों में उत्तर लिखिए
25-May Wednesday	अध्याय साखी का भावार्थ क्रमांक 1 और 2 लिखिए ।
26-May Thursday	अपने खेल के मैदान को आदर्श रूप देने के लिए अपने सुझाव देते हुए प्राचार्या महोदया को एक प्रार्थना पत्र लिखिए ।
27-May	नगर निगम की कार्यप्रणाली पर असंतोष व्यक्त करते हुए नगरनिगम के मुख्य अधिकारी को पत्र

Friday	लिखिए।
30- May Monday	लोकोक्ति किसे कहते हैं ? हिन्दी भाषा में इसका क्या महत्व है ?
31-May Tuesday	कोई 10 लोकोक्ति लिखिए जो आपने पिछली कक्षाओं में पढा हों ।
1-Jun Wednesday	क्या जीवन में अनुशासन का होना आवश्यक है ? अपने विचार लिखिए ।
2-Jun Thursday	हमारे देश में क्रिकेट अति महत्वपूर्ण खेल है । जिसका खामियाजा अन्य खेलों को उठाना पडता है । इस विषय से संबंधित दो खेल प्रतियों के मध्य हुए संवाद को लिखिए।
3- Jun Friday	वोट डालना हमारा एक अति महत्वपूर्ण कर्तव्य है। इस विषय पर अध्यापक तथा छात्र के मध्य हुए संवाद को लिखिए।
6-Jun Monday	जूते बनाने वाली अंतर्राष्ट्रीय कंपनी के लिए एक विज्ञापन तैयार कीजिए।
7-Jun Tuesday	मलेरिया से पीडित व्यक्ति के लिए "ओ धनात्मक" (0+) रक्त की आवययकता है । इसके लिए एक विज्ञापन तैयार कीजिए।
8-Jun Wednesday	एक प्रसिद्ध लैपटॉप बनाने वाली कंपनी के लिए एक विज्ञापन तैयार कीजिए ।
9-Jun Thursday	मुंशी प्रेमचंद हिन्दी साहित्य के प्रमुख स्तंभकार है थें। इनका जीवन परिचय देते हुए इनकी 5 कृतियों नाम लिखिए ।
10-Jun Friday	कबीरदास जी का जीवन परिचय देते हुए इनकी 5 कृतियों के नाम लिखिए ।

xxxxxx END xxxxxxxx