



Summer Vacation

Dear parents ,

Hello! Thank you for your care and support for a long time. Summer holiday is coming, and we are very much concerned about whether students could spend a colorful and happy summer vacation. Because your children are not only the hope and future of the motherland but also expectations of every family. Their security is related to every family. In order to let them have a healthy, safe, civilized and happy holiday, please fulfill the duties of guardians conscientiously and urge children to do safety work well. We put forward the following suggestions to you:

First, we should create a good atmosphere at home. Home is the life of the harbor and is the paradise of learning. Many successful examples show that harmonious and good family atmosphere can improve the students' inner qualities spontaneously, develop good study habits and is also conducive to the healthy growth of students. Therefore, as a parent, you should communicate and exchange with your children more, make friends with them, encourage them to do some housework in the range of their own ability and create a clean, beautiful, warm and harmonious family atmosphere.

Second, children should maintain regular life and keep learning. Although the summer holiday was a period of rest and relaxation, parents should require children to maintain regular life, go to bed early and rise early. Parents should urge their children to complete homework on time, read some healthy extra-curricular books, broaden children's horizon and expand the field of children's vision. Parents should also encourage students to participate in a variety of reading activities, community activities, social investigation and the social practice activities actively, which could increase their social knowledge. Parents should help children develop good reading habits.

Three, life is no small matter; security should be in your mind. Pupils are minors, lack of safety awareness and the sense of safety precaution. Parents should often remind them and teach them the necessary safety prevention knowledge:

1. Pay attention to traffic safety. Children must obey the traffic rules and go out with friends or in your company. If they go out together or alone, they must tell you where they would go, who would go with them and what time they would come back. Don't promise them that they could invite classmates to play out without permission or stay outside overnight.

2. Safety education about drowning prevention: Children must go swimming under adult supervision. Without safety measures or adult supervision, children mustn't go swimming alone

or with friends. Children should learn self-protection knowledge and skills. Security should be always in mind.

3 Parents should pay close attention to kids around your children. Communication with bad guys should be strictly prohibited. Don't open the door to strangers at home or contact with strangers. Prevent violence.

Forth, keep civilized on the Internet and keep healthy every day. Children should go on Internet at home under adult supervision. Children shouldn't log in or browse unhealthy website. Children should resist the adverse information consciously. Arrange time reasonably and don't indulge in the games. Children shouldn't go to the game rooms, Internet cafes and other unhealthy places. Be a civilized, good moral juvenile.

Five, do exercise regularly and make sure of food safety. Supervise children to do more exercise. Pay attention to personal hygiene, environmental hygiene and food hygiene. Don't eat rotten, bad food or "three nose" food. Don't take children to eat out and participate in the banquet. Prevent overeating and food poisoning.

Six, there are some students enrolled in summer school. Please pick up the children according to the rules of the school time.

Dear parents, I hope you can cooperate closely with school, and be positive and responsible to arrange the students' summer life.

The summer vacation begins from May 21st to 30th June. The school will reopen on July 1st.

Finally, hope for our students -- be safe, grow healthily. And we wish you success in work, family happiness, and good luck in everything.

Sonila Bhagat
Principal

GREEN FIELD PUBLIC SCHOOL
CLASS - IX
HOLIDAY HOME WORK (2019-20)

हिंदी

१. परियोजना कार्य - मेरा प्रिय साहित्यकार |
२. अर्धवार्षिक परीक्षा पाठ्यक्रम के पाठ पढ़कर प्रत्येक पाठ के विषय में कम से कम दस पंक्तियाँ लिखिए।
३. कहानी की कोई पुस्तक पढ़कर पुस्तक के सम्बन्ध में निम्न मूल्यांकन बिंदुओं पर लिखिए -
 - * पुस्तक तथा लेखक का नाम |
 - * कहाँ से ली गई |
 - * सारांश
 - * पुस्तक पर अपने विचार |

SUBJECT: English

English Workbook:

- A. Test assignment [No. 7 to 12]
- B. Article writing [Page no. 70 to 73]
- C. Complete all tenses exercise given in workbook

SUBJECT: SOCIAL SCIENCE

HISTORY-CHAPTER 1-THE FRENCH REVOLUTION

LEARNING POINTS:-

Very Short Answer Type Questions (Minimum 15)

Long questionType answer

Causes of French Revolution, Wars and Economic Crisis, Role of the Philosophers and thinkers. Division of France society, The National Assembly, The National Anthem of France, The Feature of the France Constitution of 1791, Significance of 'The Tennis court Oath', Highlight the political reasons behind of the French Revolution, Role of Jacobins during the French Revolution.

MAP -PRACTICE- outline political map of France show the following Bordeaux, Nantes, Paris, Marseilles, Alsace, Brest, Toulouse, Ruffex.

GEOGRAPHY CHAPTER 1 -INDIA- SIZE AND LOCATION

Very Short Answer Type Questions. (minimum 15 question)

Long Answer Type Questions

Latitudes, Longitude, Tropic of Cancer, Location and size, Indian Standard Time (IST),
-Why is Indian ocean named after our country? Give reasons.
- How have the mountain passes been helpful to India since historic time?

MAP-PRACTICE- On the outline map of India show the followings:-

- (a) The Island groups The Arabian Sea and The Bay of Bengal.
- (b) The Union Territories of India.
- (c) The Strait with longest coastline.
- (d) The countries constituting the Indian subcontinent.

(e) The Strait separating Sri Lanka from India.

POLITICAL SCIENCE-CHAPTER-1 - What is Democracy? Why Democracy?

LEARNING POINTS

Very Short Answer Type Questions (Minimum 15 Question)

Long Answer Type Questions

Dictatorship, Democracy, Distinguish between a democracy and a good democracy,
Distinguish between democracy and a non-democracy,

ECONOMICS - CHAPTER-1-FACTORS OF PRODUCTION (The story of the village Palampur)

Very Short Answer Type Questions (Minimum 15 Question)

Long Answer Type Questions

Production, production Process, Factor of Production, Capital, Working Capital, Fixed Capital, Human Capital, HYV seeds, Characteristics of rural labour in India, Green Revolution, Electricity help in rural area (for farmers)

P.P.T. (Power Point Presentation) on chapter 1- CHAPTER-1-FACTORS OF PRODUCTION (The story of the village Palampur)

PROJECT WORK - Project on Disaster Management.

(Note: - All learning point should be written in a separate note book)

SUBJECT: MATHEMATICS

1. If $x + y = 12$ and $xy = 32$, find the value of $x^2 + y^2$.
2. If $3x + 2y = 12$ and $xy = 6$, find the value of $9x^2 + 4y^2$.
3. Write the following cubes in the expanded form:
 - i. $(3a + 4b)^3$
 - ii. $(5p - 3q)^3$
4. If $x^2 + 1/x^2 = 27$, find the value of each of the following :
 - i. $x + 1/x$
 - ii. $x - 1/x$
5. If $x - 1/x = 4$, then evaluate $x + 1/x^2$
6. If $a + b + c = 15$, and $a^2 + b^2 + c^2 = 83$, find the value of $a^3 + b^3 + c^3 - 3abc$.
7. Factorize:
 - i. $6ab - b^2 + 12ac - 2bc$
 - ii. $9(2a - b)^2 - 4(2a - b) - 13$
8. If $x^3 + ax^2 - bx + 10$ is divisible by $x^2 - 3x + 2$, find the value of a and b .
9. Which one is not a polynomial
 - i. $4x^2 + 2x - 1$
 - ii. $Y + 3/Y$
 - iii. $X^3 - 1$
 - iv. $Y^2 + 5Y + 1$

10. Find a rational number between $\frac{2}{9}$ and $\frac{3}{8}$, and arrange in descending order.
11. Find ten rational numbers between $-\frac{2}{5}$ and $\frac{1}{7}$.
12. Insert two irrational numbers between $\sqrt{3}$ and $\sqrt{7}$.
13. Rationalize the denominator: $\frac{3\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$.
14. If $x = 5 - 2\sqrt{6}$, find the value of $x^2 + \frac{1}{x^2}$.
15. Arrange the following numbers in ascending order. (i) $\sqrt[3]{2}, \sqrt{3}, \sqrt[6]{5}$ (ii) $\sqrt{3}, \sqrt[3]{4}, \sqrt[4]{5}$.
16. Use Remainder Theorem to find the remainder when $f(x)$ is divided by $g(x)$ in the following –
- (i) $f(x) = x^3 + 3x^2 + 3x + 1, g(x) = 5 + 2x$
- (ii) $f(x) = x^3 - 6x^2 + 2x - 4, g(x) = 1 - \frac{3}{2}x$
17. If the remainder on dividing the polynomial $2x^4 - kx^2 + 5x - 3k + 3$ by $(x + 2)$ is 4, then find the value of k .
18. The polynomials $ax^3 + 3x^2 - 13$ and $5x^3 - 8x + a$, when divided by $(x - 2)$ leave the remainder p and q respectively. If $p - 2q = 4$, find the value of a .
19. Without finding cubes, factorise $(x - 2y)^3 + (2y - 3z)^3 + (3z - x)^3$.
20. (i) If $a + b + c = 12$ and $ab + bc + ca = 22$ find the value of $a^2 + b^2 + c^2$.
- (ii) If $a + b + c = 5$ and $ab + bc + ca = 10$ find the value of $a^3 + b^3 + c^3 - 3abc$.

SUBJECT: PHYSICS

Attempt all the questions.

- (a) Identify the kind of motion in the following cases:
 - A car moving with constant speed turning around a curve.
 - An electron orbiting around nucleus.
 (b) An artificial satellite is moving in a circular orbit of radius 36,000 km. Calculate its speed if it takes 24 hours to revolve around the earth.
- (a) Define average speed.

(b) A bus travels a distance of 120 km with a speed of 40 km/h and returns with a speed of 30 km/h. Calculate the average speed for the entire journey.
- Define uniform and non-uniform motion. Write one example for each.
- What does the odometer of an automobile measure? Which of the following is moving faster? Justify your answer.
 - A scooter moving with a speed of 300 m per 1 minute.
 - A car moving with a speed of 36 km per hour.
- A car travels from stop A to stop B with a speed of 30 km/h and then returns back to A with a speed of 50 km/h. Find

- (i) displacement of the car.
 - (ii) distance travelled by the car.
 - (iii) average speed of the car.
6. Velocity-time graph for the motion of an object in a straight path is a straight line parallel to the time axis.
- (a) Identify the nature of motion of the body.
 - (b) Find the acceleration of the body.
 - (c) Draw the shape of distance-time graph for this type of motion.
7. Draw the shape of the distance-time graph for uniform and non-uniform motion of object. A bus of starting from rest moves with uniform acceleration of 0.1 ms^{-2} for 2 minutes. Find
- (a) the speed acquired.
 - (b) the distance travelled.
8. (a) Define uniform acceleration. What is the acceleration of a body moving with uniform velocity?
 (b) A particle moves over three quarters of a circle of radius r . What is the magnitude of its displacement?
9. A bus accelerates uniformly from 54 km/h to 72 km/h in 10 seconds Calculate
- (i) acceleration in m/s^2
 - (ii) distance covered by the bus in meters during this interval.
10. A car moves with a speed of 30 km/h^{-1} for half an hour, 25 km/h^{-1} for one hour and 40 km/h^{-1} for two hours. Calculate the average speed of the car.
11. Derive the equation for velocity-time relation ($v = u + at$) by graphical method.
12. A car is travelling at 20 km/h , it speeds upto 60 km/h in 6 seconds. What is its acceleration?
13. A car accelerates from 6 ms^{-1} to 16 ms^{-1} in 10 sec. Calculate
- (a) the acceleration and
 - (b) the distance covered by the car in that time.
14. A circular track has a circumference of 3140 m with AB as one of its diameter. A scooterist moves from A to B along the circular path with a uniform speed of 10 m/s . Find
- (a) distance covered by the scooterist,
 - (b) displacement of the scooterist, and
 - (c) time taken by the scooterist in reaching from A to B.
15. (a) Differentiate between uniform linear and uniform circular motion.
 (b) Write any four examples of uniform circular motion.
 (c) Is uniform circular motion accelerated motion?

SUBJECT: CHEMISTRY

1 Marks Question:

1. Pressure on the surface of a gas is increased. What will happen to the inter particle forces?
2. Name three states of matter.
3. What happens when a liquid is heated?
4. A gas can exert pressure on the walls of the container. Assign reason.

5. Convert the following temperature to Kelvin Scale (a) 100°C (b) -100°C
6. What is meant by density?
7. Give the characteristics of particles of matter.
8. Water droplets seen on the outer surface of a glass containing ice – cold water is due to _____.
9. Change of gaseous state directly to solid without going through liquid state is called _____.
10. _____ is a surface phenomenon.

2 Marks Question:

1. Define Latent heat of vaporization.
2. Explain why temperature remain constant during the change of state of any substance?
3. Define sublimation with example
4. Do we sweat more on dry day or humid day? Justify your reason.
5. Why do we water droplets on the outer surface of a glass containing ice cold water?
6. Convert the following temperature to the Celsius scale : (a) 25K (b) 373K
7. List two properties that liquids have in common with solids.
8. List two properties that liquids have in common with gases.
9. What will happen to the melting point temperature of ice if some common salt is added to it? Justify your answer.
10. How will you show that air has maximum compressibility?

5 Marks Question:

1. (a) What is meant by evaporation? What are the factors on which the rate of evaporation depend upon? (b) How does evaporation causes cooling?
2. State the properties of all the five state of matter.
3. Define : Melting point, Freezing point and Boiling point.

SUBJECT: BIOLOGY

1. A drop of ink is placed gently at the base of a beaker containing water by means of a dropper. What will happen?
2. Why do dry apricot placed in salt solution do not swell while they do so when kept in water?
3. How do substances like CO_2 and H_2O move in and out of the cell?

4. Why is plasma membrane known as selectively permeable membrane?

5. Put a drop of blood in the three type of liquids:

a. Pure water

b. Salt solution

c. Water containing 5M glucose and 0.9% NaCl

What will happen to the blood drop and why? Explain your answer.

6. Why is endocytosis found in animals only?

7. If you are provided with some vegetables to cook, you generally add salt into vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this?

8. Why lysosomes are known as suicidal bags?

9. How are chromatin and chromosomes are related to each other?

10. Differentiate between diffusion and osmosis.

11. What do you understand by semi autonomous bodies? Give examples also.

12. Define membrane biogenesis. Where lipids and proteins, constituting the plasma membrane, do get synthesized?

13. What are genes? Where are they located in the cell?

14. What for ATP stands? Which organelle is the power plant of eukaryotic cell? Write in brief its function.

15. Make a 2-D Structure of any of the diagram of your choice related to your syllabus.

SUBJECT: LIFE SKILLS

Q1 Define various types of intelligence with example in detail?

Q2 Make a swot analysis of your self

Q3 How we can achieve personal growth

Q4 Note down a short story about Abdul Kalam and also find out moral value of his life.

COMPUTER APPLICATIONS

1. Make a PowerPoint presentation (minimum 15 slides) on any given topic:

a) Input device, output device, Storage device with examples

b) E-shopping, E-banking

c) E-governance, E-reservation

d) E-learning, E-commerce

2. Prepare any one of the above topic for class explanation.

3. Learn chapter 1 and 2 for class test.