

RED ROSE SENIOR SECONDARY SCHOOL

HOLIDAY HOMEWORK

CLASS IX B

ENGLISH

- Find the difficult words of Ch- 3, The Little Girl(Behive) and Ch-3, Ishwaran the Story-teller (Moments) and write its synonyms and antonyms in English Literature copy.
- Write a paragraph on given topics in English Language copy. (80-100 words)
 1. Books are our best companions
 2. A Stitch in Time saves Nine
- Do the given worksheet in English Language copy.

The following paragraphs have not been edited. There is one error in each line. Write the incorrect word and its correction.

1. You will have your hair cut very short in the first month. After that you might grow it longer but it shall never touch your collar. Your uniform should be neat but clean too. A student is expect to be neat and clean.

	<i>Error</i>	<i>Correction</i>
e.g.	will	<u>must</u>
(a)	_____	_____
(b)	_____	_____
(c)	_____	_____
(d)	_____	_____

2. Amongst young peoples, motorcyclists and scooterists are the great cause of danger. They often try to show of by driving at break-neck speed; they risk there own life as well as that of other.

	<i>Error</i>	<i>Correction</i>
e.g.	peoples	<u>people</u>
(a)	_____	_____
(b)	_____	_____
(c)	_____	_____
(d)	_____	_____

3. Traffic in metropolitan cities have almost reached a saturating point. The roads are overcrowding with people moving in the hurry. They are not interested to following the rules and regulations. The rash drivers jump red lights, overtake from wrong sides leading into traffic jams.

	<i>Error</i>	<i>Correction</i>
e.g.	have	<u>has</u>
(a)	_____	_____
(b)	_____	_____
(c)	_____	_____
(d)	_____	_____

4. Rome have a peculiar social set up. The people of Rome were dividing into two classes, the Patricians and the Pleibians. The Patricians was the noble people. They own most of the land. They governed the state and they lead the soldiers to battle.

	<i>Error</i>	<i>Correction</i>
e.g.	have	<u>had</u>
(a)	_____	_____
(b)	_____	_____
(c)	_____	_____
(d)	_____	_____

5. Developed on India over 5000 years ago, ayurveda has gain worldwide recognition as a efficient healthcare system. It uses a system on analysis and physical examination which depends almost entirely on observation for find out one's original nature and imbalances.

e.g. on in
(a) _____
(b) _____
(c) _____
(d) _____

Social Science

Topic:Disaster Management (Project File)

- Take only Natural Disasters
- Cover on World and India
- Take some popular incidents write in details and support it with pictures .
- Take interleaf punch papers

File cover should be covered with blue florescent Paper. There should be 5 mandatory pages like_

1. Contents
2. Introduction
- 3.Acknowledgement.
- 4.Bibliography
- 5.Conclusion

File should be submitted by the end of June.

Map Work

Do the maps of the various chapters as instructed and then stick them in the geography notebook with the name of the chapters on it.

1. India Size and Location

Mark

- A .States and Capital
 - B.Union Terri tories
 - C.Neighbouring countries
 - D. Tropic of Cancer and IST
- 2.Physical Features of India
 - A.Moutain Ranges
 - B.Moutain Peaks
 - C. Plateaus
 - D.Coastal Plains

- 3.Drainage
 - A.The Himalayan Rivers
 - B.The Peninsula Rivers
 - C.Lakes

4.Climate

- A. Areas receiving rainfall less than 20 cm and over 400 cm.

5.Natural Vegetation and Wildlife

A.VegetationType

B.National Parks

C.Bird Sanctuaries

D.Wildlife Sanctuaries

6.Population

Estates having lowest highest density of population

Note :

Every chapter's Topics should be on a new map.

MATHEMATICS

Week 1(1 June to 7 June)

Chapter 1(NUMBER SYSTEMS)

Ex-1.1 Q NO.2, 4.

Ex-1.2 Q NO.1, 3.

Ex-1.3 Q NO.1, 3, 7, 9.

Ex-1.4 Q NO.1, 2.

Ex-1.5 Q NO.1, 2, 3, 4, 5(iii),(iv)

Ex-1.6 Q NO.1(i), 2(i),(iv), 3(ii),(iv)

Ques 1-On her birthday Reema distributed chocolate in an orphanage the total number of chocolate she distributed is given by $(5+\sqrt{11})(5-\sqrt{11})$.

- i) find the number of chocolate distributed by her.
- ii) write the moral values depicted here by Reema.

Ques2-if $x = 3-2\sqrt{2}$ find $x+1/x$.

Ques3-Find the value of m, so that $2x - 1$ be a factor of $8x^4 + 4x^3 - 16x^2 + 10x + m$.

NOTE- Practice all examples of chapter 1.

Week 2(8 June to 14 June)

Ex-2.1 Q NO.1(i), (iii), (v), 2(ii), (iv), 4(ii), 5(ii), (iv), (v), (vii)

Ex-2.2 Q NO.1, 2, (ii), (iii), 3(i), (iii), (vi), (viii), 4,(v), (vi)

Ex-2.3 Q NO.1(ii), (iii), (v), 2, 3.

Ex-2.4 Q NO.1(ii), (iv), 2,(i), (ii), 3(ii), (iii), (iv)

Ques1- Factorise : $x^3 - 2x^2 + 5x + 10$.

Ques 2-Factorise : $9x^2 + 4y^2 + 16z^2 + 12xy - 16yz - 24zx$.

NOTE- Practice all examples of chapter 2.

Week 3(15 June to 20 June)

Ex-2.5 Q NO.1(ii), (iii), (iv), 2 (iii), 3 (ii), 4(iii), (iv) 5(ii)

6(iv), 7(iii), 8(iv), 9 (i), (ii), 10(i), 11, 12

13, 14(i), 15(i), 16(ii)

Ex-3.1 Q NO. 2.

Ex-3.2 Q NO. 1, 2

Ex-3.3 Q NO. 1, 2

NOTE- 1. Practice all examples of chapter 3.

2. Revise all the identities related to Ex-2.5.



Complete the following charts, projects and models (Only 1 from each)

MODELS

1. To prepare model of Number System.
2. To make spiral of $\sqrt{7}$ by using thread.
3. Relate polynomial to daily life
4. Design a crossword puzzle related to Mathematical concepts.
5. To prepare wind chimes by using Mathematical shapes.

PROJECTS

1. Origin and development of Number System.

2. Concept of Rational and Irrational numbers.

3. Historical details of zero

(i) Requirements of zero

(ii) Evaluation in various civilizations

(iii) Importance of zero

4. Projects on branches of mathematics

(i) Algebra (ii) Geometry (iii) Architecture (iv) Music

5. To investigate on male female ratio over generation and interpret it by using bar graph.

6. Mathematics behind metro routes.

7. Mathematics through newspapers.

8. Development of mathematics Apps.



CHARTS

1. Algebraic Identities
2. Formulae related to Surface area and volume.
3. Kinds of Quadrilaterals with properties.
4. Angle subtended by arcs in the same segment are equal.
5. Area of Parallelogram using graph paper

Subject Science

Make a hand written project on any one of the following topics :

1. Water cycle
2. Oxygen cycle
3. Carbon cycle
4. Nitrogen cycle
5. Pollution
6. Holes in ozone layer and probable damages.

Note:- The project has to be made on A4 sheets containing minimum of 8 and maximum 10 pages, properly stapled and kept in a folder (clear bag).

Note:- Note:- The following experiments has to written in science lab manual under headings:-

1. Aim
2. Materials (Apparatus) used
3. Result

LIST OF EXPERIMENTS

1. Preparation of:

- a) a true solution of common salt, sugar and alum
- b) a suspension of soil, chalk powder and fine sand in water
- c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of

- transparency
- filtration criterion
- stability

2. Preparation of

- a) A mixture
- b) A compound using iron filings and sulphur powder and distinguishing between these on the basis of:
 - (i) appearance, i.e., homogeneity and heterogeneity
 - (ii) behaviour towards a magnet
 - (iii) behaviour towards carbon disulphide as a solvent
 - (iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes:

- a) Iron with copper sulphate solution in water
- b) Burning of magnesium ribbon in air
- c) Zinc with dilute sulphuric acid
- d) Heating of copper sulphate crystals
- e) Sodium sulphate with barium chloride in the form of their solutions in water

4. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.

5. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams.
6. Determination of the melting point of ice and the boiling point of water.
7. Verification of the Laws of reflection of sound.
8. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
9. Establishing the relation between the loss in weight of a solid when fully immersed in
 - a) Tap water
 - b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.
10. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).
11. Verification of the law of conservation of mass in a chemical reaction.

Chemistry

1. Water is a compound and not a mixture. Justify the statement giving two reasons.
2. Write one property of suspension.
3. Identify solute and solvent in 80% solution of ethyl alcohol with water.
4. Classify Brass and Diamond as element and mixture.
5. How is a chemical change different from a physical change ?

6. Why particles in a true solution cannot be seen with a naked eye ?
7. Identify the heterogeneous mixture from the following :
Air, soda water, soap solution, brass.
8. Write two components of a colloidal solution. Give an example.
9. Distinguish between elements and compounds with one example of each.
10. A solution contains 60 g of sugar in 480 g of water. Calculate the concentration of solution in terms of mass by mass percentage of the solution.
11. Define a solution. If 10 mL of H_2SO_4 are dissolved in 90 mL of water, calculate the concentration of solution.
12. 110 g of a solute are present in 550 g of solution. Calculate the concentration of solution.
13. Give any three points of difference between true solution, colloidal solution and suspension.
14. State which of the following solutions exhibit Tyndall effect :
Starch solution, Sodium chloride solution, Tincture of iodine, Air.
15. Identify colloids from the following :
Copper sulphate solution, milk, smoke, muddy water, butter, sugar solution, face cream, lemonade.
16. List any three differences between true solution and suspension.

17. On dissolving chalk powder in water, a suspension is obtained. Give any four reasons to support the fact that mixture so obtained is a suspension only.

18. When a solution is said to be saturated ? How can you change a saturated solution to an unsaturated solution without adding any more solvent to it ? Explain in brief.

19. To make a saturated solution, 36 g of sodium chloride is dissolved in 100 g of water at 293 K. Find the concentration in terms of mass of solution at this temperature.

20. List two differences between a pure substance and a mixture. Give an example of each.

21. Differentiate between an element and a compound. Categorize the following substances into elements and compounds.

Sodium chloride, iodine, water, 24 carat gold, oxygen gas, carbon.

22. Air is considered to be a mixture and not a compound ? Explain.

23. A solution contains 50 g of sugar in 450 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

24. What is 'Tyndall effect' ? Name two mixtures which show this effect.

25. Why is water called universal solvent?

26. Sea water can be classified as homogeneous as well as heterogeneous mixture.' Comment.

27. Why is it not possible to distinguish particles of a solute from the solvent in solution?

28. Explain why particles of a colloidal solution do not settle down when left undisturbed, while in the case of a suspension they do.

29. Which of the following are not compounds?

- (a) Chlorine gas
- (b) Potassium chloride
- (c) Iron
- (d) Iron sulphide
- (e) Aluminium
- (f) Iodine
- (g) Carbon
- (h) Carbon monoxide
- (i) Sulphur powder

30. Classify the following into elements, compounds and mixtures.

- (i) Pure sand
- (ii) Air
- (iii) Ammonia gas
- (iv) Ice
- (v) Glass
- (vi) CaO.

Physics

Short Answer Type-I Questions

1. Define the term 'speed'. What is the SI unit of speed?
2. Speed is a scalar quantity. Justify this statement.
3. What should we know to find the exact position of a moving body?
4. Under what circumstances is the velocity of a body negative?
5. A train takes 3 h 15 min to travel from Agra to Delhi with a uniform speed of 60 km/h. Find the distance between the two cities. [Ans. 195 km]

Short Answer Type-II Questions

1. Distinguish between the following:
 - a. Speed and velocity
 - b. Odometer and speedometer
2. A train takes 2 h to reach station B from station A, and then 3 h to return from station B to station A. The distance between the two stations is 200 km. Find
 - a. the average speed.
 - b. the average velocity of the train.

[Ans. a. 80 km/h b. zero]

3. A car moving on a straight road covers a distance of 1.5 km due east in 150 s. What is the speed of the car? What is its velocity?

[Ans. speed = 10 m/s, velocity = 10 m/s due east]

4. The odometer of a car reads 4000 km at the start of a trip and 4600 km at the end of the trip. If the trip took 10 h,

calculate the average speed of the car in a. km/h and b. m/s.
[Ans. a. 60 km/h, b. 16.6 m/s]

5. It takes 6 minutes for the signal sent by an artificial satellite orbiting around the earth to reach the ground station. Calculate the distance of the artificial satellite from the ground station. The signal travels with the speed of light, i.e. 3×10^8 m/s. [Ans. 1.08×10^8 km]

Information technology

Make a digital presentation on Power Point

Topic :- Communication Skills

Submit the hard copy of given work in transparent folder

Subject—Hindi

- (1) ऊर्जा संरक्षण पर एक 100 से 150 शब्दों में एक अनुच्छेद लिखिए?
- (2) कोरोना काल में अवसाद ग्रस्त अपने मित्र की सकारात्मक सोच को विकसित करने लिए संवाद लिखिए।
- (3) भीषण गर्मी में होने वाली बिजली कटौती की शिकायत करते हुए बिजली विभाग को पत्र लिखिए।
- (4) राष्ट्रीय स्तर की खेल प्रतियोगिता में दौड़ में प्रथम स्थान प्राप्त करने के लिए चचेरी बहन को पत्र लिखिए।

