

HOLIDAY HOMEWORK

CLASS IX

ENGLISH

1. Read books online and write a review of the book you like the most. Make a creative book cover and put the review in it.
2. Read first five poems of the book 'Beehive' and write the poetic devices used in the poems in your notebook.
3. Writing skills- Practice formal letter and story writing.
4. Revise the syllabus covered so far.
5. Write an article in about 150 words on the topics mentioned in the following list:
 - a) Roll no. 1-8 – Examination paves way for success
 - b) Roll no. 9-16- The role of youth in realizing the dreams of Dr. Kalam
 - c) Roll no. 17-24- Staying vigilant while on social media
 - d) Roll no. 25 onwards- The importance of positive thinking

HINDI

1. करवाया गया का सम्पूर्ण पाठ्यक्रम याद करो |
2. रहीम के दोहे कंठस्थ करो|
3. जलसंरक्षण तथा स्व-च्छता से संबंधित तीन| लिखो (स्लोगन) तीन नारे-
4. कोरोना से बचने के सुझाव देते हुए जनता के नाम एक संदेश लिखो |
5. महादेवी वर्मा ने किसउनकी सूची तैयार ,किस पशु या पक्षी पर कहानी लिखी है-
| कीजिए तथा कोई एक कहानी कक्षा में सुनाइए
6. अकबर के दरबार में नवरत्न थे उन नौ रत्नों के चित्र लगाकर उनके बारे में लिखो
|
7. अपनी मनपसन्द कोई एक पुस्तक पढ़कर समीक्षा लिखिए |
8. विद्यालय पत्रिका के लिए कोई दो स्वरचित लेख लिखिए|

MATH

- REVISE CH. – 1, 2, 3, 4, 14, 15 OF NCERT
- REVISE ASSIGNMENTS OF CHAPTER 1, 2, 3, 14 AND 15.
- DO MCQ's of CH. 1,2,3,4 FROM NCERT EXEMPLER (links of Chapters are given below)
- <http://ncert.nic.in/ncerts/l/ieep201.pdf>
- <http://ncert.nic.in/ncerts/l/ieep202.pdf>
- <http://ncert.nic.in/ncerts/l/ieep203.pdf>
- <http://ncert.nic.in/ncerts/l/ieep204.pdf>

SOCIAL SCIENCE.

- **Make a project on causes, after affect and its management of any disaster**
- **Learn chapters covered in the class.**

SCIENCE

- ❖ **Make any working model for the science exhibition.**
- ❖ **Solve worksheets.**
- ❖ **Revise chapters 1,2, 5,8,13,14 and complete your notebook.**

WORKSHEET 1

Chapter 1 (Matter in Our Surroundings)

1. Matter is made up of small_____.
2. _____ is the change of gaseous state directly to solid state without going through liquid state, and vice-versa.
3. Evaporation causes _____.
4. Which factors determine the state of a substance?
5. Define latent heat of vaporization and latent heat of fusion.
6. If the melting point of an object A is high then what state you expect it to be at room temperature?
7. What is the effect of sprinkling of water on the roof or open ground on a hot sunny day?
8. Differentiate between physical and chemical change?
9. What happen when we apply pressure to the particles of matter?
10. How does the change in temperature and humidity affect the rate of evaporation?
11. With the help of an example, explain how diffusion of gases in water is essential?

WORKSHEET 2

CHAPTER 2 (Is Matter Around Us Pure?)

1. What is a mixture? What are its various types?
2. Define solute, solvent and solution?
3. What is a solution? What are the properties of solution?

4. Differentiate between elements and compounds.
5. Write a method to separate different gases from air.
6. What is a colloid? What are its various properties?
7. A solution contains 60g of NaCl in 400g of water. Calculate the concentration in term of mass by mass percentage of the solution.
8. Differentiate between metals and non metal based upon the various properties that they show.
9. What is distillation and fractional distillation? What is the basic property that separates the two methods?
10. What is chromatography? What are its various applications and underline the basic principle involved?
11. Explain the term centrifugation. Give its two applications.
12. Why copper sulphate solution in water does not show Tyndall effect, but mixture of water and milk shows?
13. How can a saturated solution be made unsaturated?
14. Describe the various steps involved in the purification of water for dirty water supply.
15. Under which category of mixtures will you classify alloys and why?

WORKSHEET 3
CHAPTER 5 (The Fundamental Unit of Life)

1. Explain “A cell is a basic unit of an organism”.
2. Write the main function of each of the following.
(a) Plasma membrane (b) cell wall (c) Ribosome (d) Lysosome (e) Nucleolus (f) Endoplasmic reticulum
3. Draw a plant cell and label the parts –
(a) Synthesize food
(b) Produce energy
(c) Store house of organic substances like protein, organic acids
(d) Packages material coming from endoplasmic reticulum
(e) Determine function and development of the cell.
4. What is nucleoid? How it is different from the nucleus of an eukaryotic cell?

5. Differentiate between diffusion and osmosis.
6. If you are provided with some vegetables to cook, we generally add salt to the Vegetables during cooking process. After adding salt, vegetables releases water. What mechanism is responsible for this?
7. Differentiate between plant cell and animal cell.
8. What are genes? Where are they located?
9. What is the similarity between mitochondria and plastids?
10. What is the role of SER in liver cells of vertebrates?

WORKSHEET 4

CHAPTER 8 (MOTION)

1. Differentiate between distance and displacement.
2. Derive mathematically the first equation of motion $V = u + at$?
3. Calculate the acceleration of a body which starts from rest and travels 87.5 m in 5 sec.
4. A car travels at a speed of 40 km/hr for two hour and then at 60 km/hr for three hours. What is the average speed of the car during the entire journey?
5. Derive the second equation of motion.
6. Calculate the acceleration and distance of the body moving with 5m/s^2 which comes to rest after traveling for 6sec?
7. A body is dropped from a height of 320 m. The acceleration due to the gravity is 10 m/s^2 ?
 - (a) How long does it take to reach the ground?
 - (b) What is the velocity with which it will strike the ground?
8. Derive third equation of motion.
9. A boy throws a stone upward with a velocity of 60m/s.
 - (a) How long will it take to reach the maximum height ($g = -10\text{m/s}^2$)?
 - (b) What is the maximum height reached by the ball?
 - (c) How long will it take to reach the ground?
10. Express average velocity when the velocity of a body changes at a non-uniform rate and a uniform rate.

Worksheet 5

Chapter 11 (Why do we fall ill?)

1. List one basic difference between symptoms and signs of a disease.
2. Which two factors determine the severity of the disease?
3. Why are we normally advised to take bland and nourishing food when we are sick?
4. What are vectors, explain with an example?
5. Define antibiotic. How penicillin works on bacteria but not on human beings?
6. What are the different means by which infectious diseases are spread?
7. Why is it difficult to develop vaccine against viral disease?
8. What is immunization? Explain the basis of the principle of immunization.
9. What are the two ways of treating an infectious disease?
10. Explain principles of treatment.
11. What are the practices to prevent airborne microbes?
12. Hepatitis-A vaccine was given to a child of 8 years. Will it be helpful? Give reason.
13. Expand-
 - a) DPT
 - b) OPV
 - c) BCG

Worksheet 6
Chapter 14 (Natural Resources)

1. What are natural resources?
2. Explain air pollution with harmful effects on human health.
3. Explain acid rain.
4. What is water pollution? Explain its causes.
5. Explain soil formation in detail.
6. Explain the water cycle, nitrogen cycle, and carbon cycle with a neat and clean diagram
7. Definition of biogeochemical cycle.
8. What is ozone layer? Why is it very important for us? Where is it actually situated?
9. What are CFCs?
10. How atmosphere acts as a blanket for us?

11. Name two diseases caused due to burning of fossil fuels.
12. What is the conversion of NH₃ into NO₃ known as?
13. Why does Mathura refinery pose problems to the Taj Mahal?
14. Fertile soil has lots of humus. Why?
15. Write down differences between nitrification and denitrification.

Art & Craft

1. Practice sketching and shading
2. Make any 2 craft items from waste material.

II

Prepare an assignment in MS Word:

Page 1) Create and design a sample Student Loan Application form using different options like table, shapes, font style, size etc. available in MS Word.

STUDENT LOAN APPLICATION FORM			
Family Name: _____		Student Number: c _____	
First Name: _____			
Photo Identification (Passport or Drivers Licence)			
No: _____	Expiry Date: _____	Copied	<input type="checkbox"/>
Second Identification document: _____		Copied	<input type="checkbox"/>
Permanent Home Address: _____			
Postcode: _____	□ □ □ □		
Temporary Living Address (if different): _____			
Postcode: _____	□ □ □ □		
Preferred Phone Number : _____			
Are you an: Australian Citizen <input type="checkbox"/> Permanent Resident <input type="checkbox"/> International Student <input type="checkbox"/> Other _____			
Study Details: Undergraduate <input type="checkbox"/>		Post Graduate <input type="checkbox"/>	
Faculty _____		Program _____	
Are you completing an industry placement/clinical prac/major project this year? Yes <input type="checkbox"/> No <input type="checkbox"/>			
If yes, details: _____			
Amount of Loan Requested: \$ _____			

Page 2) Create business/ Visiting cards using shapes, text and colors and use page border option on the page.

Page 3) Use Smart Art to show Oxygen Cycle in environment and format the smart Art.

Page 4) Create a sample index page from any of your book i.e. IT, Science, S.St.,Maths etc.

Page 5) Take a double column book or newspaper and design or create similar paragraph style in the word document.

Use header and footer on every page that contains page number, date, title etc.