

M R Vivekananda Model School Sector 13 Dwarka

Holiday Homework

Class X 2024-25

Dear Parents,

The most awaited **Summer Break** is from **20th May** to **30th June**. As per forecast by weather department the temperature will rise more and warm breeze (Loo) will blow. We suggest the following to remain healthy and hydrated:

- **Wear cotton clothes, Consume more liquids and water, Go for morning walk and remain indoors. We want students to utilize this time by reading newspapers, spending value time with elders and grandparents, help parents with daily chores, watch informative TV channels such as National Geographic and Discovery etc.**
- **Students have been given interesting, creative and knowledgeable home work. Ensure that your ward does the task on his/her own using innovative ideas. Parents are advised to guide their ward only.**

Principal

ENGLISH

Read the following chapters (Supplementary Reader)

1. Chapter No 2 ----9 & write summary of all those.
2. Prepare a Art Integration project on Lakshadweep And Andaman and Nicobar Island to promote tourism.
3. Read Newspaper daily.
4. Write 20 Idioms and 50 new words in your notebook.

SCIENCE

Biology

1. Write all the biology practical in your practical, Draw color full diagrams

2 .Do the given assignment in your note book

- Q.1 Write the balanced chemical equation of photosynthesis.
- Q.2 List the events taking place during the process of photosynthesis.
- Q.3 How does an amoeba takes its food. Explain it with the help of the diagram.
- Q.4 Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans?
- Q.5. What are the necessary' conditions for autotrophic nutrition and what are its byproducts?
- Q.6 How opening and closing of stomata takes place?
- Q.7 Draw the well labeled diagram of the following.
 - (a) Human digestive system
 - (b) Human respiratory system
- Q.8 Diagrammatically explain the opening and closing of stomata.
- Q.9 Differentiate in a tabular form between autotrophic and heterotrophic nutrition.(3 points)
- Q.10 Leaves of a potted plant were coated with wax to block the stomata.

3. Art integrated Project on different plants and animals form of Andaman and Nicobar island OR Lakshadweep island. Students can make chart, file, report, power point presentation etc.[Any One]
4. Prepare a portfolio on management of natural resources.

Physics

1. Prepare notes of Light
2. Do NCERT questions of light
3. Do 3 experiments in practical files(focal length of concave mirror and convex lens)
4. **Assignment of Physics**
 - Q1. What do you mean by Rectilinear Property of Light?
 - Q2. What do you mean by reflection of light? Diagrammatically show the phenomenon on a regular reflecting surface, properly indicating incident ray, reflected ray and normal.
 - Q3. What are the two Laws of Reflection?
 - Q4. Write three differences between real and virtual image?
 - Q5. Explain how to get concave and convex reflecting surfaces. What do you mean by center of curvature C, radius of curvature R, principal axis, pole, aperture, of a spherical reflecting surface. Show it diagrammatically also.
 - Q6. Define the focus of a convex and a concave mirror. Also show it diagrammatically.
 - Q7. What is the difference between focus and focal length of a spherical mirror? How focal length is related to radius of curvature?
 - Q8. Write four rules of image formation in case of concave and convex mirror. Also explain them diagrammatically.
 - Q9. When a ray of light passes or appears to pass through C why does it retrace its path

CHEMISTRY

1. Do assignment of ch-1
- Q.1. Distinguish between an exothermic and an endothermic reaction. Amongst the following reactions, identify the exothermic reaction and the endothermic reaction.
 - (i) Heating coal in air to form carbon dioxide.
 - (ii) Heating limestone in a lime kiln to form quicklime.
- Q.2. When the powder of a common metal is heated in an open china dish, its colour turns black. However, when hydrogen is passed over the hot black substance so formed, it regains its original colour. Based on the above information answer the following questions:
 - (i) What type of chemical reaction takes place in each of the two given steps?
 - (ii) Name the metal initially taken in the powder form. Write balanced chemical equations for both reactions.
- Q.3. Write balanced equations for the reaction of :
 - (i) Iron with steam
 - (ii) Calcium with water
- Q.4. Crystals of copper sulphate are heated in a test tube for some time. What is the colour of copper sulphate crystals
 - (i) before heating, and(ii) after heating?
- Q.5. State any two observations in an activity which may suggest that a chemical reaction has taken place. Give examples to support your answer.
- Q.6. Write fully balanced chemical equation and state the physical condition and physical state of the reactants in the following reaction.
 1. Make a chart on allotropes of carbon
 2. Make a power point presentation on acid-base indicators.

MATHEMATICS

- (i) Do Practice exercise of Ch-1,2,3,4,5 from Maths NCERT in assignment notebook
- (ii) Do lab activity 1,2,3,5,7,8,12,14,16,17,20,21,22 and 24 in School Maths Lab File.
- (iii) Make a decorative chart /A3 Sheet on any of the topic (Maths slogan,Formulae,Maths use in daily life,collage of Great Mathematician)
- (iv) Make any Model/decorative item / any useful product by using anyone of the following topics as per given Roll no
 - *Real Number(1-5)
 - * Algrbra (6-10)
 - *Arithmetic Progression (11-15)
 - * Triangles (16-20)
 - *Coordinate Geometry (21-30)
 - *Trigonometry(31-35)
 - * Circles(36-40)
 - *Surface Area and volume(41-45)
 - *Statistics and Probability(above 45)
- (V) Do the assignments in separate note books or on ruled Sheets (Assignment pdf will be given in class group)

SOCIAL SCIENCE

1. Read , revise and complete your question and answers of the chapters done in the class.
2. Develop a habit to watch news on TV specially prime news.
3. Art integrated work should be completed as told in the class.
4. Visit historical monuments of Delhi and write a report on it in your History register.
5. Prepare a project work on any of the following topics
 - A) SUSTAINABLE DEVELOPMENT
 - B) COSUMER AWERENESS
 - C) SOCIAL ISSUESabove project is COMPLUSORY as directed by CBSE
6. Prepare the compulsory project work of CBSE on natural disasters as told in the class.
7. Prepare a beautiful and creative work on any theme related to Geography of India.

HINDI

१)अंडमान -निकोबार द्वीप की लोककथा-तँतारा-वमीरो कथा का नाटकीय रूपांतरण लिखिए तथा पारंपरिक पोशाकों को चित्रो की सहायता से सुसज्जित कीजिए। समस्त कार्य स्क्रेपबुक में किया जाएगा।

२) संचयन की सभी कहानियाँ पाठ-1, 2, 3 पढ़ें।और प्रश्न- उत्तर अपने शब्दों में कॉपी में लिखिए।

३) स्लोगन बनाएं।(ए-3 शीट)

- जल संरक्षण
- प्रदूषण
- हिंदी दिवस
- वृक्षारोपण

अब तक का कराया गया सभी कार्य दोहराएँ

COMPUTER

Make a Power Point Presentation on Communication skills and Self-Management Skill .

Save it in Pen Drive and take a printout . (More than 15 Slides)

ENJOY YOUR HOLIDAYS BUT AT THE SAME TIME, WORK HARD TO ACHIEVE YOUR CHERISHED GOALS. FEEL FREE TO CALL, IF FIND ANY DIFFICULTY IN THE SUBJECT.