



**FIT
INDIA**

SURAJ SCHOOL

**SURAJ
EDUCATION**

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Summer Holiday Homework (2023-24) CLASS – IX

**Sun shines on your skin and mine
until it sets way after nine.**

Memories made with a cold drink in hand.

Moments to cherish with feet in the sand.

Everyone laughing, smiles on every face.

Remember the moments, those were the days.

Turn up the music, sing it out loud.

Indigo skies, no sign of a cloud.

Mutter the words that no one will know.

Everlasting memories; where does time go?



ENJOY YOUR SUMMER VACATIONS!!

प्रकाशमय कल के लिए



HOLIDAY HOMEWORK (2024-25) CLASS –IX

“Genius is one percent inspiration and ninety-nine percent perspiration. As a result, a genius is often a talented person who has simply done all of his/her work on time”.

Dear parent

As we all know that every year we have a summer break in our school, this is a time when every kid plans a holiday with their parents to visit their grandparents or a new city or country. Even though there are many good things about the holidays, it always comes with holiday homework. It is the task that is assigned to students to be completed during the holiday. This is intended to improve the skills of students and enhance their capabilities. Keeping this in mind, holiday homework has been prepared so that along with the fun, continuity with academics is also maintained.

Note: Kindly go through the instructions carefully and do the needful accordingly.

- Entire Homework is to be done in the concerned subject notebook.
- Entire holiday homework (Subject wise) would be **evaluated for Term-I Internal Assessment out of 10 marks**
- Well labelled Holiday homework to be submitted to the concerned Subject Teacher on **Wednesday July 05, 2024.**

Wishing you all a very Happy Summer Break!!



SCIENCE

PHYSICS

1. Define uniform circular motion and give example of it Why is it called accelerated motion?
2. Define acceleration and give its si unit .When is acceleration of a body negative? Give two examples of situations in which acceleration of the body is negative.
3. Write the difference between uniform motion and non uniform motion.
4. During a freefall what is the weight of a body. Give reason for the answer.
5. Is uniform circular motion taking place at a constant speed or constant velocity? Why?
6. Find relationship between g and G .
7. Two cars having masses in the ratio 4 :5 accelerate in the ratio 2 : 3. Find the ratio of forces exerted by each of them.
8. Explain Newton's second law of motion.
9. Write the difference between speed and velocity of a body.
10. Make a assignment on the basis of kepler's laws of planetary motion.
11. Write all the formulas of chapters - Motion, Force and laws of motion and Gravitation 10 times on A4 sheet.

CHEMISTRY

1. 20 cm^3 of acetone is added into water to make a total volume of 250 cm^3 . Calculate the percentage by volume of acetone in this solution.
2. (a) How will you test that whether a solution is saturated or unsaturated?
(b) What would happen if a saturated solution of sodium chloride is
(1) heated (2) cooled?
3. Solubility of ammonium chloride at 293K is 37g. What mass of ammonium chloride would be needed to make a saturated solution in 10g of water at 293K?
4. What happens to the heat supplied once solid starts to melt?
5. Why do we see water droplets on the outer surface of a glass containing ice cold water?
6. When 50 g of sugar is added to the 100 mL of water then there is no increase in the volume. What characteristics of matter are illustrated by this observation? Explain with reasons.
7. During an activity a student 10g iron filings and 10g sulphur powder in a bowl, brought a bar magnet near it and observed that the filings were picked up by the magnet.

He put sulphur and iron filings back in the bowl and put it on heat. After some time he brought the magnet over it again. This time, the iron filings were not attracted towards the bar magnet.



- a. Which type of change has occurred in the bowl?
 - b. What can be inferred from the activity?
 - c. Which compound might have been formed in the bowl on heating?
8. Which mixture is formed when a student adds crushed chalk powder to the water in a beaker? Justify your answer with reasons.
 9. Explain the following terms with their S.I Units and examples:
 - a. Latent heat of fusion
 - b. Latent heat of vaporisation
 - c. Diffusion
 10. Which gas is used in inflation of balloons and why?
 11. Which is the heaviest element on earth? Explain its atomic number and atomic mass. What does its atomic number signify?
 12. Why did Dalton's theory fail to explain the structure of atom?
 13. What are electropositive and electronegative elements? Explain with examples?
 14. Which forces help in separation of mixtures and how?
 15. Why does a balloon burst when kept in open sunlight for longer time?
 16. Identify the following gases and write their chemical formulae along with their properties:
 - a. Laughing gas
 - b. Balloon gas
 17. Read the given passage carefully and answer the following questions:
 Molecules are the essential building blocks of life. Without water molecules, life on Earth would not exist. All living organisms need protein molecules for structure and function. Therefore, an understanding of how atoms combine to form molecules is to understanding the origins of life. An atom or a molecule can lose or gain electron to form ion. When an atom/ molecule gains negatively charged electron, a negative charged is formed. A molecule is a neutral particle, composed of a set number of atoms bonded together. The

particle of the substance is a molecule, rather than the atoms that make up the molecule. By contrast, ionic compounds are made up of an indeterminate number of ions, in a fixed ratio. The particle of the ionic substance remains the ion.

- a. What is an ion? Give one example.
- b. Write the name of positively charged particle and negatively charged particle.
- c. Write the ions present in KCl, HBr, HCl, CH₃COOH.
- d. What are polyatomic ions? Give two examples.

18. Make a periodic table on A₄ sheet.

19. Write a story as a compound forming a molecule and playing a crucial role on our planet.

20. Write 2 multiple choice questions every day on chapter1, chapter2 and chapter 3.

BIOLOGY

1. Detailed note of invention of cell and their Contribution?
2. Make flow chart or table on pastel sheet related to the chapter first?
3. Make on project of cell and their cell organelles and their functions with diagrams?
4. Justify the answer -:
 - a. What would happen if the plasma membrane ruptures or breakdown?
 - b. How does an Amoeba obtain its food?
 - c. Which organelles is known as the powerhouse of the cell? why?
 - d. Why are lysosomes known as suicide bag?
 - e. what would happen of the life of a cell if there was no Golgi complex?
5. Make a sketch of Corona virus on a A4 size paper and also write assignment report on symptoms and precaution of this virus.

6. Prepare a model on the following

Sr. No.	Roll No.	Suggested Topics
1.	1-10	Plant Cell
2.	11-20	Animal Cell
3.	21-30	Mitochondria
4.	31-40	Mitosis and Meiosis
5.	41-50	Lysosomes

7. Make one useful Model by waste material generated at your home like basket, hanging wall painting etc.

हिंदी

- 👉 1. कबीर दास, रसखान, प्रेमचंद तथा ललदयद में से किसी एक का जीवन परिचय फाइल में करें।
(परियोजना कार्य)
- 👉 2. दो बैलों की कथा के आधार पर हीरा और मोती की गहरी दोस्ती मालिक के प्रति को लिखिए।
- 👉 3. कबीर की साखियां एवं सबद को भावार्थ सहित लिखिए।
- 👉 4. उपसर्ग तथा प्रत्यय की परिभाषा व 10 उपसर्ग व सभी के दो -दो शब्द तथा 10 प्रत्यय व सभी के दो -दो शब्द लिखिए।
- 👉 5. समास की परिभाषा व प्रकार तथा सभी के 5-5 उदाहरण लिखें।
- 👉 6. गीता के दोनों श्लोक कंठस्थ करें दो-दो बार लिखें। (परियोजना कार्य)
- 👉 7. गायत्री मंत्र लिखकर अभ्यास करें। (परियोजना कार्य)

ENGLISH

1. Draw mind maps of the following characters from the book 'Beehive '
 - a. The Fun They Had
 - b. The Sound of Music
 - c. The Little Girl
 - d. The Road Not Taken
 - e. The Lake Isle of Innisfree
2. Write bio sketch of the following:-
 - a. Bismillah Khan
 - b. Little Girl: Kezia
3. Write an Article on the below mentioned topics:-
 - a. My school
 - b. My best friend
 - c. Me and my dreams.
 - d. Where do you see yourself after ten years.
 - e. Role of my family in my life
4. Make a dictionary and add 5 words daily with their synonyms and antonyms from the chapters and poems of "Beehive".
5. write a paragraph - How did you enjoy your summer vacations and about your holiday excursion.

SOCIAL SCIENCE

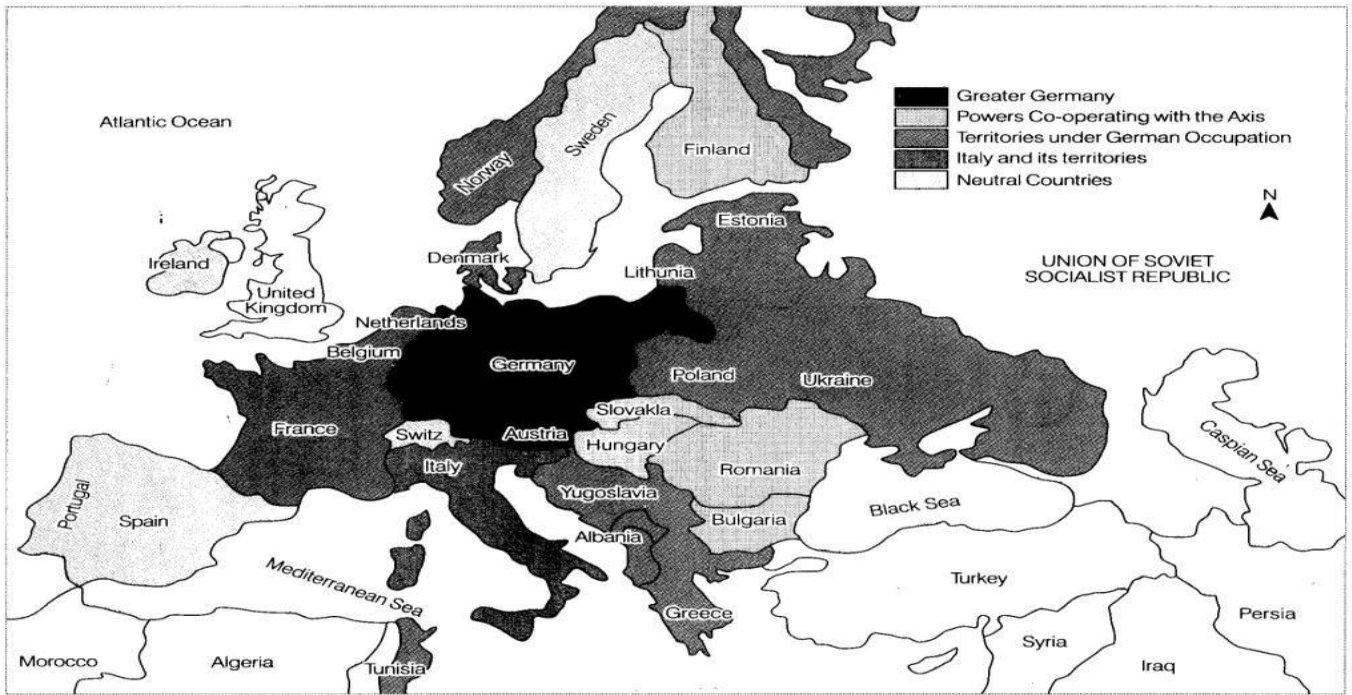
1. Write and explain on A4 about the process of election of president in India.
 - a. Mention the article in which explain about the election of president • Value of vote
 - b. Preference Voting
 - c. How to find result



2. Explain the role of thinkers and philosophers in the French Revolution.
3. Evaluate the importance of the following years in concern with French Revolution, 1774, 1789, 1791, 1804 and 1815.
4. What were the main causes of the French Revolution of 1789?
5. Write A note on the Bloody Sunday incident.
6. Explain any three major effects of the Russian Revolution of October 1917 on Russian economy.
7. Explain any four reasons why Russian people wanted the Tsar to withdraw from the First World War.
8. The Treaty of Versailles was harsh and humiliating'. Justify by giving four terms of the treaty.
9. What steps were taken by Hitler to reconstruct Germany?
10. Explain the following terms :
 - a. Holo-caust,
 - b. Concentration Camp,
 - c. Wall Street Exchange.
11. What does direct democracy imply? Why can it not be practiced in the present-day world?
12. Democracy is all about political competition and powerplay. There is no scope for morality'. Justify the statement by giving arguments against democracy.

13. Democracy is better than other forms of government because it allows us to correct its own mistakes.”
14. Describe the main features of Preamble of the Indian Constitution.
15. What makes elections in India democratic? Explain
16. Explain the role of the Election Commission in free and fair elections

MAP WORK- MAJOR COUNTRIES IN 2ND WORLD WAR

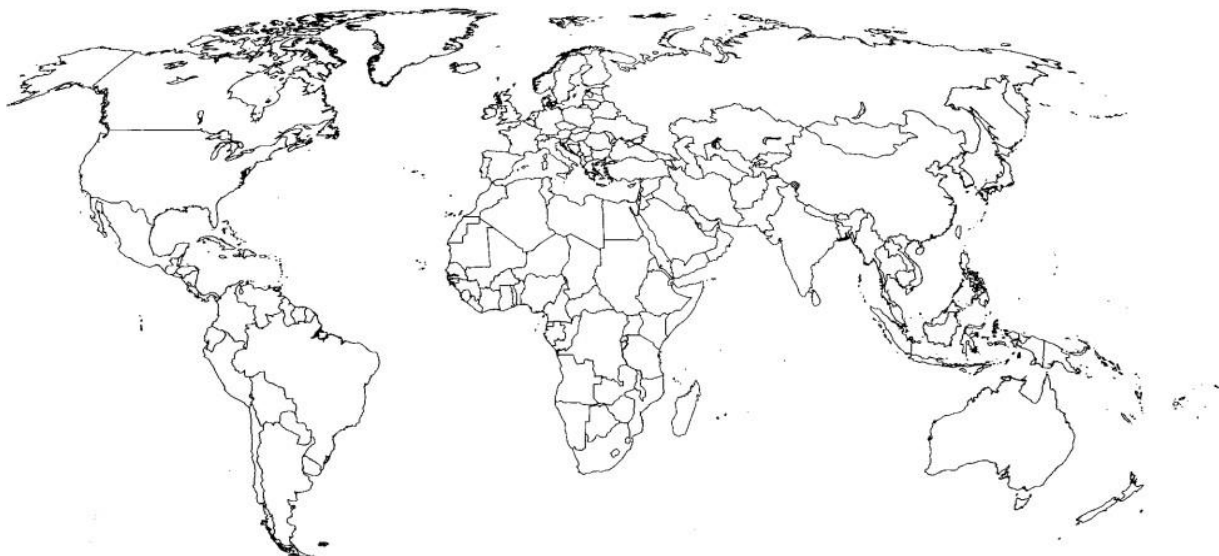


On the outline map of the world, locate and label the countries that were Axis Powers in Second World War.



On the given outline map of the world locate, the countries that were central powers in the First World War.

Read



Biography- (Any One)

1. Adolf Hitler
2. Lenin
3. Stalin
4. Napoleon Bonaparte

MATHEMATICS

1. Solve 10 question related to the lines and angles.
2. Solve 15 question related to the polynomial.
3. Solve any two HOTS questions from chapter 1 to 6
4. Prove that through a given point we can draw only one perpendicular to the given lines.
5. Make a chart on any one of the following topics: -
 - a. Identity
 - b. Type of triangle
 - c. Number system
 - d. Define postulate
 - e. Lines and angle
6. Write at least 20 formulas used in the various Mathematics concepts.
7. Write and learn the Square and cube from 1 to 40.
8. Make a model on any 5 three dimensional shapes and also write a short note on each.