



Air Force School, Jaipur

SUMMER HOLIDAY HOMEWORK

Class: IX

SCIENCE

Chemistry:-

1. Compare in tabular form the properties of solids, liquids and gases with respect to (i) Shape (ii) Volume (iii) Compressibility (iv) Diffusion (v) Fluidity (A4 Size Sheet)
2. Art integrated activity:-
Lakshadweep,, Andaman and Nicobar islands are exotic and beautiful locations, providing perfect inspiration for Chemists. Write a short article about the types of mineral resources found in these islands on an A-4 Sheet and paste relevant pictures.
3. Do the assignment of Chapter-1 Attached in Chemistry Notebook.

Physics:-

1. Investigate the motion of a Pendulum. Study the factors affecting the time period of a pendulum, such as length, mass and amplitude, and present your finding in a creative way.
2. Design a model of a Transportation system. Create a model of transportation either by train or by a car and study its motion, speed and acceleration.
3. Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 minutes till you reach your destination, record three observations in the tabular form. Plot graph between distance-time and speed-time. State whether this motion is uniform or non-uniform.
5. Do the given assignment in your physics notebook which is attached with your physics notebook.

Biology:-

1. Draw a cell and cell organelles in a scrap book or loose sheets; add dialogue and text to explain their functions. Present it in a comic form.

What to include:-

- (a) Characters:- Represent different organelles as characters with personalities.
- (b) Dialogue:- Show how organelles interact and perform their tasks.
- (c) Visuals:- Use vibrant colours and engaging art styles.

- (d) Informative text:- Provide clear explanations of cell processes.
2. Observe the process of osmosis in daily life and list your observations.

SOCIAL SCIENCE

1. Economics

- a. Research and write about the Indian economy or a specific economic issue (e.g., poverty, unemployment).
- b. Create a project on the role of entrepreneurship in economic

2. History

- a. Mark all the countries of Europe and Asia.
- b. Read newspapers and write an essay on “Democracy and poverty” with examples from INDIA.

Art Integration

Make a picture collage of pairing States Rajasthan and Nagaland on the basis of food, Dresses, Festivals, and Places etc.

ENGLISH

1. Learn all the chapters done in class.
2. Write three diary entries on your special experiences during summer break.
3. Write an article on each of the topic given below:-
 - a. Eve teasing
 - b. Mental Health of the teen age students.
4. Write descriptive paragraph on any two topics given below:-
 - a. My favorite person
 - b. My favorite book
 - c. Indian wedding
 - d. School's Sports day
5. Write a story in your words in about 120 words.

हिन्दी

1. किसी भी विषय पर 80—100 में एक अनुच्छेद।
2. एक औपचारिक तथा एक अनौपचारिक पत्र
3. सूचना एवं ईमेल लिखिए (किसी भी विषय पर)

A.I. (ARTIFICIAL INTELLIGENCE)

Write a letter to your future self in the word file and save it as pdf. The following points can be included in a letter/e-mail:-

1. Start with your interests, hobbies and skills.
2. Relate how AI can help you.
3. Write about your career you want to pursue and how AI will make an impact on that.

Mathematics

Creative Holiday Homework

Theme: Real-Life Math Applications

1. **Statistics Project** – Survey 10 people (family/friends) and make bar graphs/pie charts from their responses (e.g., favorite fruit, screen time).
2. **Math in Sports** – Explain how math is used in scoring, angles, speed, or timing in any 2 sports.
3. **Design a Dream House** – Draw a floor plan of a house using scale (1 cm = 1 m) and calculate area/perimeter of each room.