

Bharatiya Vidya Bhavan's Atmakuri Rama Rao School

Road No. 45 (End), Jubilee Hills, Hyderabad - 500 033

Holiday Homework (2025 - 26)

<u>Class IX</u>

Subject - English

Activity1: Design a poster for the theme (A4 Sheet)

"Books Build Bonds" - Show how reading can strengthen family relationships.

Activity2: Diary of a School Bag (A4 sheet)

Imagine yourself as a **School bag**; narrate about the daily life of a school bag-being thrown around, carrying loads, or hearing students' gossip.

Subject - Mathematics

Dear Students,

Mathematics Holiday HW consists of three parts: Part A, Part B & part C. Part A - activities, Part B - Project & Part C worksheet.

• Part A:

Following record activities need to be done neatly and colorfully as mentioned in the record book. Follow the given instructions carefully and use the required material. Activities link :

https://drive.google.com/file/d/1GNP4DYi_bdimYBbmJDYzTgoVwO2BEfoo/view?usp=sharing Your activity should contain:

- \checkmark Name of the topic
- ✔ Objective
- ✔ Materials required
- ✓ Procedure
- ✔ Observation
- ✓ Calculation/remark

for activity 1 you can use the following references

Document link:

https://drive.google.com/file/d/1yR2X6JqYPv7vWHFtxG8MPgVrxEDWLMUa/view?usp=share_l ink

Video link:

https://www.youtube.com/watch?v=7Q_7A6Hn2KA

• Part B:

The following project needs to be done on a Chart paper/A4 sheet.

write about any 5 great mathematicians and their history, contribution to this field. (Need to Choose mathematicians such that they are related to class 9 chapters).

 Part C: Worksheet link <u>https://drive.google.com/file/d/1L3Iyi7xRPPRgbnKr5NNu-aD6kibvbWVr/view?usp=sharing</u>

Subject - Science

I. Write the following experiments from the Science Practical Manual into your Lab Records.

Physics:

- 1. To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder
- 2. To establish 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.
- 3. To verify the laws of reflection of sound.
- 4. To determine the velocity of a pulse propagated through a stretched string/slinky.

Chemistry:

- 1. To prepare:
 - a. A true solution of common salt, sugar and alum in water.
 - b. A suspension of soil, chalk powder and fine sand in water.
 - c. A colloidal solution of starch in water and egg albumin in water and distinguish between these on the basis of: transparency,filtration criterion,stability

- 2. To prepare:
 - i. A mixture
 - ii. A compound
 - a) Using iron filings and sulphur powder and distinguish between these on the basis
 - of appearance i.e., homogeneity and heterogeneity.
 - b) Behaviour towards a magnet
 - c) Behaviour towards carbon disulphide as a solvent.
 - d) Effect of heat.
- 3. To carry out the following chemical 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.
 - e) Sodium sulphate with barium chloride in the form of their solutions in water.
- 4. To separate the components of a mixture of sand, common salt and ammonium chloride (or camphor) by sublimation.
- 5. To determine the melting point of ice and boiling point of water.
- 6. To verify the law of conservation of mass in a chemical reaction.

Biology:

- 1. Preparation of stained temporary mounts of
 - (a) Onion peel
 - (b) Human cheek cells and to record observations and draw their labelled diagrams
- Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibres and nerve cells in animals from prepared slides. Draw their labelled diagrams.
- II. Power Point Presentation on the Topic Cell- The Fundamental Unit of Life.

Instructions for submission:

- Maximum slides 10-12
- Insert the required Diagrams
- Take a print arrange all the sheets in order and staple or bind them into a file or

a folder.

• Submit the file on the first day after the holidays.

Slide 1: Topic heading, your name, class and section

Slide 2: History of cell, Microscope

Slide 3: Various cells from the Human body.

Slide 4: Introduction to Plasma membrane, Cytoplasm and Cell organelles

Slide 5: Types of solutions- Hypertonic, Hypotonic, Isotonic

Slide 6: Cell wall-Structure and functions

Slide 7: Nucleus-Structure and functions

Slide 8: Endoplasmic Reticulum, Golgi Apparatus-Structure and functions

Slide 9: Lysosomes, Mitochondria-Structure and functions

Slide10: Plastids, Vacuole-Structure and functions

Subject - Social Science

Disaster Management is how we deal with the human, material, economic or environmental impacts of said disaster. It is the process of how we prepare for responding to and learn from the effects of the measures failure. Disasters are of two types - Natural and Human induced disaster.

Prepare one project on Disaster Management (natural disaster) of 20 pages.

The guidelines for the project work are given below:

- Page 1 Title, Name, Class, Section etc.
- Page 2 Index
- Page 3 Introduction of the topic- What is the meaning of disaster, types of disasters etc.
- Pages 4 to 13 Topic chosen for the project work, for example Tsunami, Earthquake, Oil spill, Chemical Explosion etc. What causes the said disaster and how it leads to the serious problems and threat to life, measures that can be taken to mitigate damage and destruction caused by the said disaster etc.
- Pages 14-18 Case study
- Page 19 Bibliography
- Page 20 Teacher's Remarks

The project work should be done on A 4 size sheets.

Write only on one side of the page.

The project work should be supported with appropriate pictures.

Subject - II Language

- <u>Telugu</u>
 - ఏపైనా రెండు పేమన శతక పద్యాలను, రెండు సుమతీ శతక పద్యాలను భావ సహితంగా రాసుకుని రండి.
- Hindi
 - तेलंगाना व झारखंड राज्यों के त्योहारों के बारे में परियोजना कार्य कीजिए।

Subject - Art

• CLIMATE CHANGE AWARENESS