

◆ Holiday Homework

Class: 9

Subject: Science (Exploration Edition)

Welcome to your Science Holiday Adventure!

1. **The "Vanishing" Act:** Take 100ml of water in a transparent glass and mark the level. Add two tablespoons of salt/sugar and stir. Observe the level again. Write a brief report (50 words) explaining where the salt went based on the **Kinetic Theory of Matter**.
2. **Nature's Building Blocks:** Soak a few raisins in water overnight. Observe them in the morning. Identify if the solution was **hypotonic, hypertonic, or isotonic** and explain the process of **Osmosis** that took place.
3. **Cellular Comparison:** Draw a neat, labeled diagram comparing a **Plant Cell** and an **Animal Cell**.
4. **Draw labelled diagrams of cell organelles ,also write the functions**
5. **Evaporation Cooling Project:** Take two identical earthen pots (Matkas). Wrap one in a wet jute cloth and leave the other as is. Measure the temperature of the water in both after 3 hours. Explain why we feel cooler under a fan when we sweat, linking it to your observation.
6. **The Inertia Challenge:** Perform the "Coin and Card" trick for your family. Place a card on a glass and a coin on the card. Flick the card away. Explain **Newton's First Law (Inertia)** to your parents as they watch the coin drop into the glass! Record their reaction in your file.paste the picture of your performance.

NOTE- Take a printout of this H.HW n paste in your portfolio

All work should be compiled in a single **Portfolio File**.

- Use A4 size sheets (ruled for writing, plain for diagrams).
- Make index and mention the activities as per your arrangement
- Draw proper labelled diagrams for each activity

Stay Curious, Scientist! Enjoy your holidays!