# **St. Andrews Scots School**

Adjacent Navniti Apartments, I.P. Extension, Patparganj, Delhi – 110092 Session: 2025-2026

Class: VI

Subject: Science

**Topic: The Wonderful world Of Science** 

# **DEFINE THE FOLLOWING:**

- **1. Hypothesis-** An educated guess or a proposed explanation for a phenomenon that can be tested through experimentation.
- 2. Ecology- The study of organisms, the environment and how the organisms interact with each other and their environment.
- **3.** Sustainable strategies Sustainable strategies are ways to use resources and live in a way that meets our needs today without harming the Earth or future generations' ability to do the same.
- **4. Analysis-**Carefully examining something to understand its parts and how they relate to each other.

## FILL IN THE BLANKS:

- 1. Science involves making observations, asking questions, making guesses. <u>hypothesis</u> doing experiments and figuring out the results.
- 2. Stars shine because of reactions happening inside them.
- 3. A seed needs water, sunlight, and <u>nutrients</u> from the soil to grow.
- 4. Water can be solid (ice), liquid (water), or gas steam.
- 5. The scientific method is a <u>step-by-step</u> process that scientists use to find answers to questions and solve problems.

# WRITE TRUE OR FALSE:

- 1- The scientific method involves observation, questioning, hypothesizing, experimenting, analyzing, and concluding. Ans: True
- 2- A caterpillar turning into a butterfly is an example of metamorphosis. Ans: True
- 3- Water boils at 0°C and freezes at 100°C. Ans: False
- 4- Curiosity is not important in science. Ans: False
- 5- Recycling involves separating materials like paper, plastic, and metal so they can be reused.
  Ans: True

# **MULTIPLE CHOICE QUESTIONS:**

#### 1- What drives humans to explore and ask questions from an early age?

- (a) Necessity
- (b) Curiosity
- (c) Education
- (d) Environment

Answer (b) Curiosity

#### 2- What does the scientific method help us to do?

- (a) Spend more time outdoors
- (b) Find reliable answers and understand the world better
- (c) Avoid asking questions
- (d) Make quick decisions

Answer (b) Find reliable answers and understand the world better.

#### 3- How is science described in relation to exploration?

- (a) Like a puzzle with no end.
- (b) Like a routine tasks.
- (c) Like a set of rules.
- (d) Like a straightforward path

Answer (a) Like a puzzle with no end.

#### 4- At what temperature does water boil?

- (a) 0°C
- (b) 50°C
- (c) 100°C
- (d) 200°C

Answer (c) 100°C.

#### SHORT ANSWER TYPE QUESTIONS:

#### Q1- What is Science?

A1- Science is a way of thinking, observing and doing things to understand the world we live in and to uncover the secrets of the universe.

## Q2- What is the driving force behind scientific inquiry?

A2- Curiosity

#### Q3- What is the role of curiosity in learning science?

A3- Curiosity leads to observation, questioning, and exploration

#### Q4- What does science involve?

A4- Science involves making observations, asking questions, making hypothesis, doing experiments and figuring out the results.

## LONG ANSWER TYPE QUESTIONS:

## Q1- Give an example of applying the scientific method in daily life.

A1- An example of applying the scientific method in daily life is troubleshooting. why is a light bulb not working? You observe the problem (the bulb does not light up), form a hypothesis (the bulb might be burnt out), test the hypothesis. (Replace the bulb with a new one) and analyze the results. (If the new bulb lights up, your hypothesis was correct).

## Q2- How do everyday activities connect to scientific thinking?

- A2- Everyday activities often involve problem-solving and decision-making processes that mirror the scientific method. Whether it's fixing a broken item or cooking, we make observations, form hypothesis, and test them to find solutions.
- Q3- What makes Earth unique?
- A3- Earth is unique as the only known planet supporting life, displaying diverse. ecosystems and species that thrive across different regions

#### Q4- How can we try to find answers to our questions on our own?

A4-We can discover answers on our own through scientific inquiry by making observations and conducting experiments.