

# St. Andrews Scots Sr. Sec. School

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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. hypothesis doing experiments and figuring out the results.
2. Stars shine because of reactions happening inside them.
3. A seed needs water, sunlight, and nutrients from the soil to grow.
4. Water can be solid (ice), liquid (water), or gas steam.
5. The scientific method is a step-by-step 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.