Course Name: Scientific Thinking for Young Minds

---

1. Course Module Structure

This course is divided into 10 structured modules designed to develop scientific curiosity, critical thinking, and problem-solving skills in young learners. Each module focuses on understanding scientific concepts through observation, experimentation, and logical reasoning. The course encourages students to ask questions, explore ideas, and apply scientific thinking to everyday life situations.

---

2. Module, 3. Topic & 4. Module for 10

Module 1: Introduction to Scientific Thinking
Topics:
• What is science and scientific thinking
• Observation and curiosity
• Asking questions
• Real-life examples of science

Module 2: Observation & Experimentation
Topics:
• Importance of observation
• Basic experiments
• Recording results
• Drawing conclusions

Module 3: Scientific Tools & Measurement
Topics:
• Introduction to scientific tools
• Units of measurement

• Using simple instruments
• Accuracy and estimation

Module 4: Understanding Cause and Effect
Topics:
• Cause and effect relationships
• Identifying variables
• Simple scientific reasoning
• Everyday examples

Module 5: States of Matter
Topics:
• Solids, liquids, and gases
• Properties of matter
• Changes in states
• Real-life applications

Module 6: Energy and Forces
Topics:
• Types of energy
• Push and pull forces
• Motion basics
• Practical examples

Module 7: Environment and Nature
Topics:
• Natural surroundings
• Plants and animals
• Importance of environment
• Conservation basics

Module 8: Problem-Solving in Science
Topics:
• Identifying problems
• Forming hypotheses

• Testing ideas
• Logical conclusions

Module 9: Scientific Thinking in Daily Life
Topics:
• Everyday science applications
• Decision-making using facts
• Simple innovations
• Critical thinking activities

Module 10: Practice & Final Assessment
Topics:
• Activity-based learning
• Simple experiments
• Review exercises
• Final evaluation