

Chapter 1 Class 6 Curiosity - Case Based Question Worksheet 2 by *teachoo*

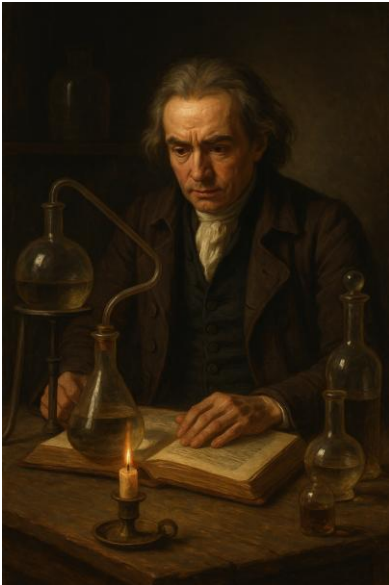
Chapter: [Chapter 1 Class 6 Science – Wonderful World of Science](#)

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Case 1: The Scientific Puzzle



A scientist in the year 1800 believes that all living things are either plants or animals. Later, another scientist discovers microscopic organisms like bacteria that don't fit neatly into either category.

1. How does the discovery of bacteria illustrate the chapter's point that a scientific "puzzle piece has been put in the wrong place and needs to be moved"?
2. What does this change in the classification of living things show about the nature of scientific knowledge?
3. Based on the ideas in the chapter, why is the first scientist's belief not seen as a "failure," but as a normal part of the scientific process?
4. How does this example show that science is an "unending jigsaw puzzle" where every discovery can lead to more questions?

Case 2: The Fading T-Shirt



Rohan notices that his dark blue cotton t-shirt, which he often leaves on a chair by a sunny window, has started to look faded, but his white cotton t-shirt in the same spot has not.

1. What is the specific observation that leads to Rohan's scientific question?
2. State a clear, testable hypothesis that Rohan could make about why his blue t-shirt is fading.
3. Describe a simple experiment Rohan could set up using just the blue t-shirt to test his hypothesis fairly.
4. After the experiment is complete, what would Rohan need to compare to draw a conclusion?

Case 3: The Bouncing Ball



Anjali wants to know if the type of surface affects how high a tennis ball bounces. She decides to test three surfaces: the grass in her lawn, the concrete sidewalk, and the wooden floor in her room.

1. What is the core question Anjali is trying to investigate?
2. Anjali guesses that the ball will bounce highest on the wooden floor. What is the scientific term for this prediction?
3. List at least two important factors (variables) Anjali must keep the same for every test to ensure her results are reliable.
4. What specific data does Anjali need to record for each surface to be able to compare them and analyse her results?

Important links

- Answer of this worksheet - <https://www.teachoo.com/25540/5337/Case-Based-Questions---Worksheet-2/category/Teachoo-Questions---Case-Based/>
- Full Chapter with Explanation, Activity, Worksheets and more – <https://www.teachoo.com/subjects/science/class-6/chapter-1-curiosity/>
- Science Class 6 – <https://www.teachoo.com/subjects/science/class-6/>
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