

Teacher: Sayan Chakraborti

Student:

**Discovering the World with the Scientific Method**

Introduction:

The scientific method is a way scientists investigate and learn about the world around them. It helps us answer questions and solve problems.

Steps of the Scientific Method:

**Ask a Question:** Start by wondering about something. What do you want to learn or find out?

**Do Background Research:** Learn about what others have already discovered. Use books, websites, or ask experts.

**Make a Hypothesis:** Make an educated guess about the answer to your question. This is like making a prediction.

**Test Your Hypothesis:** Conduct experiments or observations to see if your guess is correct. Keep track of what you do.

**Analyze Your Data:** Collect data (information) during your tests. Use graphs or charts to organize your data.

**Draw a Conclusion:** Based on your data, decide if your hypothesis was correct or not. What did you learn?

**Communicate Your Results:** Share what you found out with others. You can use reports, presentations, or drawings.

Activity:

Think of a question you have about the world around you. Write it down. Try to make a hypothesis (a guess) about the answer to your question. Share your question and hypothesis with your classmates.

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## **Discovering the Magic of Physics**

Introduction:

Physics is like magic because it helps us understand how things work. It's the science of matter, energy, and the forces that make things happen.

What Physicists Do:

Physicists explore the smallest particles in the universe, like atoms and quarks.  
They study motion, how things move and why they move.  
They figure out how light, sound, and other waves behave.  
They investigate energy, heat, and electricity.  
They solve big mysteries, like how the universe was born and how it will end.

Activity:

Have you heard of any Physicists? What did they find out? Discuss with the class.

Imagine you are a physicist. What would you want to learn about the world? Write down a question or idea you have about something you find interesting.