

THE NATURE OF SCIENCE & SCIENTIFIC METHOD

1. What is Science?

Science is not just a subject in school. Science is a way of studying the world. The word **science** comes from the Latin word that means "knowledge". More specifically, science is a way to learn or gain knowledge about the world by observing and investigating. Therefore, science is both a body of knowledge and a process.



2. What are the Major Categories of Science?

Science covers many different topics, including astronomy, biology, physics, and anatomy. Despite the huge variety, scientific topics can be classified into 3 main categories, as summarized in the table below.

Categories of Science		
Life Sciences	Physical Sciences	Earth Sciences
The study of living things	The study of matter and energy	The study of Earth and space

WORKSHEET

The Nature of Science and the Scientific Method



Scientists use a systematic way of gathering and analyzing information to find common sets of steps used in an investigation. The diagram on the right shows the six common steps found in the scientific method.

State the Problem

Many scientific investigations begin with a question about how or why something happens in nature. The **problem statement** describes what a scientist is going to investigate. Sometimes, problem statements are broad ones, but often they are when an investigation has finished and the results lead to new questions or that the investigation did not work as expected and scientists are wondering why.

Gather Information

Before starting an investigation, scientists research what is already known about the problem. To do this, they gather and study observations and conclusions from reliable sources.

Form a Hypothesis

Once research has been performed, scientists use this information to construct a hypothesis. A hypothesis is a possible explanation for a question based on what a scientist knows or observes. A hypothesis makes a



Nature Of Science 27 Worksheet Section 1

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