

Module 02 Lesson 03

Interactive Animation: Scientific Method

Transcript

[Visual: First, by itself is the phrase "The Scientific Method." It appears on screen then settles into place. Four curved arrows appear and spin around the text "The Scientific Method" but no text in it. It spins three times.]

Narrator says "A scientific study always begins with an **observation**, where you look for interesting patterns that will generate an interesting question or set of questions which will serve as the starting point of your discovery."

[Visual: Term "Observation" appears and goes into the top arrow.]

Narrator says "Based on your observations the next step is to develop a **hypothesis**, which need to be testable and falsifiable. As such it is important to realize that it is impossible to prove that a hypothesis is absolutely true because future evidence may indeed show that it is not true."

[Visual: Term "Hypothesis" appears and goes into the right arrow.]

Narrator says "One of the most effective ways to test a hypothesis is through some form of **experimentation**. The information that is collected from the experiments is used to actually test the hypothesis."

[Visual: Term "Experimentation" appears and goes into the bottom arrow.]

Narrator says "The final step is to examine and analyze the results to look for patterns and relationships from the data gathered, and from these **conclusions** are drawn to see whether the findings support the hypothesis."

[Visual: Term "Conclusions" appears and goes into the left arrow.]