

Scientific Inquiry Vocabulary



<p>hypothesis: a proposed explanation as a starting point for further investigation</p>	<p>variable: something that is able to be changed or adapted</p>	<p>fair test: a controlled investigation that helps answer a question</p>
<p>phenomena: something that is observed to exist or happen</p>	<p>data: facts and statistics collected for reference or analysis</p>	<p>outcome: the way something turns out</p>
<p>theory: an idea intended to explain something</p>	<p>prediction: a thing that is predicted to happen in the future</p>	<p>logic: reasoning based on strict principles of validity (proof, justification, reason)</p>
<p>empirical: based on or verifiable by observation or experience</p>	<p>observation: the action of observing something in order to gain information</p>	<p>inductive reasoning: when specific observations help make generalizations or theories</p>
<p>deductive reasoning: when generalizations or theories help inform specific observations</p>	<p>qualitative data: measured by the quality of something rather than its quantity</p>	<p>quantitative data: measured by the quantity of something rather than its quality</p>