

Fund of C&P--Lessons 1-3

Question	Answer
What word describes observing, asking questions, and seeking answers to explain what is observed in the natural world?	Science
Which worldview believes in there being a creator and that God is the Creator and Designer of it all?	Biblical worldview
In science, what do you call collected information such as facts, descriptions, numbers, or measurements?	Data
What are two words, often used in science, that mean "characteristics or qualities" of something that is observed?	Properties or attributes
What is the word for the process skill of drawing a conclusion or giving a possible explanation about something based upon previous experiences, observations, and reasoning?	Inferring
What is the primary job of a scientist?	Observation
Which process skill is using words, symbols, or graphics to describe an object, action, or event?	Communicating
Which process skill is using standard measures or estimations to describe specific dimensions of an object or event?	Measuring

Which process skill is a guess about what will happen next based on what is observed?	Predicting
Which process skill is grouping or ordering objects or events into categories based upon observations or common characteristics?	Classifying
What type of observation uses the five senses?	Qualitative
What type of observation am I making if I say an apple is round, red, shiny, and sweet?	Qualitative
What type of observation is used if the data collected was counted or measured?	Quantitative
These type of observations only deal with numbers and most often use tools of measurement to get the numbers.	Quantitative observations
Quantitative observations must contain two parts...a number to tell us "how much" or "how many" AND _____.	a unit of measurement to tell how much "of what"
What are the variables in an experiment that stay the same or are NOT changed?	Controlled Variables
What is the variable in an experiment that responds to a change and is to be observed or measured?	Dependent Variable
What variable in an experiment is purposely changed by the scientist?	Independent Variable

When you control your variables in an experiment, it ensures that you are conducting a _____ test.	FAIR
How many independent variables should you have in an experiment?	Only ONE
What do you call a series of logical steps with the goal of collecting reliable data to solve a problem or answer a scientific question?	The scientific method
What do you call the educated guess or prediction you make about what you think will happen in an experiment? It is usually formed as an "IF--THEN" statement.	A hypothesis
When conducting background research, it is important to make sure your sources are _____.	Reliable
What do you call the clear, easy-to-follow steps that tell you how to do an experiment?	The procedure
When forming a testable question for an experiment, they should NEVER be about what three things?	Opinions, beliefs, or feelings
Can science prove anything?	NO
Why is describing something as "delicious, fun, or yucky" NOT good scientific descriptions?	They are opinions and can't be measured.
In order to make sure that the data you collect in an experiment is accurate, what should you do besides controlling your variables?	Conduct multiple trials or have someone else repeat your experiment

What is the universal system of measurement, based on the metric system, that is used by all countries when interacting on matters of business, trade, and science?

The **International System of Units** or **SI**, for short

The study of science never involves "magic," therefore there will always be logical or _____ explanations for what is observed.

Natural

What two questions should you ask to determine if your question is a scientific and testable one before conducting an experiment?

1. What one specific thing am I testing? 2. How will I measure what I am testing?