

## How is scientific knowledge created?

- Scientists use a variety of processes to answer scientific questions

### Key Vocabulary

Biologist

Biology

Control

Data

Experiment

Hypothesis

Law (Scientific)

Model

Observation

Science

Theory

Variable

### Assignments

**#1** - Get your lab safety sheet signed and complete your student parent contact sheet. **Turn both sheets in.**

**#2** - Answer the following questions

1. What are three observations you can make of the sun?
2. How do you use your senses in school?

**#3** - For 5 extra work points

Define each of the key vocabulary words on this sheet.

**Due**

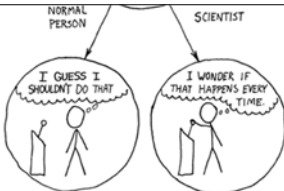
**Due**

**Due**

The password to open files downloaded from my website is always: **science**



## The Nature of Science

Process	Data	Observations
A series of actions or steps for a goal.	Information collected from observations and experiments	
The Scientific Method		Hypothesis
The scientific method is a process for investigating phenomena, acquiring new knowledge, or correcting and combining previous knowledge.		<b>Science is a systematic process that builds and organizes knowledge in the form of testable explanations and predictions about the universe.</b>
Variables		
A variable is something that you can observe changing in your experiment		
Model	Theory	Law
Control		Experiment
		An orderly procedure carried out with the goal of verifying, refuting, or establishing the validity of a hypothesis.
		Why is creating models important to science?