

UNIT  
1LESSON  
1.4*Making Observations and Inferences*

Lesson 1.4 - Making Observations and Inferences	
<b>BIG IDEA</b>	Science is the systematic and methodological study of the natural world.
<b>Guiding Question</b>	How do scientists investigate the world?

**In this lesson you will:**

- **define** the term observation and inference
- **create** observations and inferences as scientists do
- **classify** observations into group
- **support** inferences with observations
- **explain** what makes an inference acceptable or unacceptable

**Questions you should be able to answer:**

1. What is an observation?
2. How are observations made?
3. How do you classify an observation?
4. What is an inference?
5. How are inferences made?
6. What makes an inference acceptable or unacceptable?

**Concepts:**

- Scientists make observations about the world and form inferences from those observations.

**Vocabulary:**

- observation
- quantitative observation
- qualitative observation
- Inferences
- Ockham's Razor

**Questions to review**

1. What is an observation?
2. How are observations made?
3. What are the two types of observations? How are they similar and different? Do you make them using different tools?
4. What is an inference?
5. What is Ockham's razor? Why is it important to use Ockham's razor while making inferences?