Observations Vs Inferences

OBSERVATION

- An observation is a statement describing a fact.
- When you observe you become aware of something using one of your senses. If you see, smell, taste, or hear something you are observing it. You simply describe something as it appears.
- Sometimes scientists must make very careful observations. Often, their senses are not good enough. Some things can't be observed using human sense. (Examples: radiation, sound waves, and atoms)

INFERENCE

- An inference is a statement based on an interpretation of the facts.
- When you infer you make a mental judgment based on observations.
- Inferences can't be directly observed. They require thought.

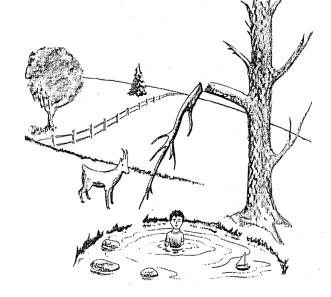
Example: You get up in the morning, look at the sky and observe dark clouds. The air is cool, humid, and you observe puddles on the ground. You might infer that it had rained recently. **NOTE**: You did not **see** it rain. You decided that it rained based upon your observations.

Practice

Your task is to determine if the following are observations or inferences.

12. There were three blue rulers on the table.

_____ 13. With all of the clouds today, it will probably rain this afternoon.





Observations and Inferences

Observations are what you notice Inferences are your reactions, thoughts or explanations

14. The car is red.

____ 15. The room is very quiet.

____ 16. All Broughton teachers are cool.