Making Observations and Inferences



Observations:

- We use our senses to gather information about the world around us.
- There are two types of observations.
 - Qualitative
 - Quantitative



Qualitative observation:

- quality
- Usually made with our senses.
- Color, shape, feel, taste, sound.

Examples:

- She is wearing a blue sweater.
- The lab tabletop is smooth.
- The dog's hair is shiny.



Quantitative observation:

quantity
How many?
Will always have a number.
Based on exact measurement.

Examples:
The room is 8 meters across.
Sarah is 141-cm tall.
Sam weighs 450 Newtons.



Inference:

- A logical interpretation of an event that is based on observations and prior knowledge.
- What does this mean?

Making Inferences

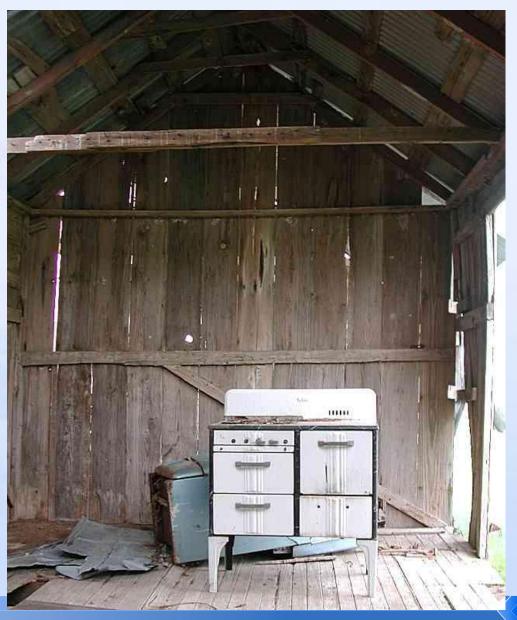
- You are at the counter in the office to get a bus pass signed. You see a student leave the principal's office crying and upset. We could make an inference as to why the student is upset.
 - Could be in trouble (ISS, OSS, expelled)
 - Family problems at home (sick, accident)
 - Student not feeling well
 - Student has poor grades (failing, retention)

Observation VS Inferences

Observation - Based on the five senses:
Sight
Smell
Touch
Taste
Hearing

 Inference – Based on prior knowledge or opinion

List 3 Observations



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List 3 Observations

