

Making Observations and Inferences



Observations

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

Qualitative

- **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

- **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.

Inferences

- **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

Observation vs Inference

- List 3 Observations
- List 1 Inference



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