



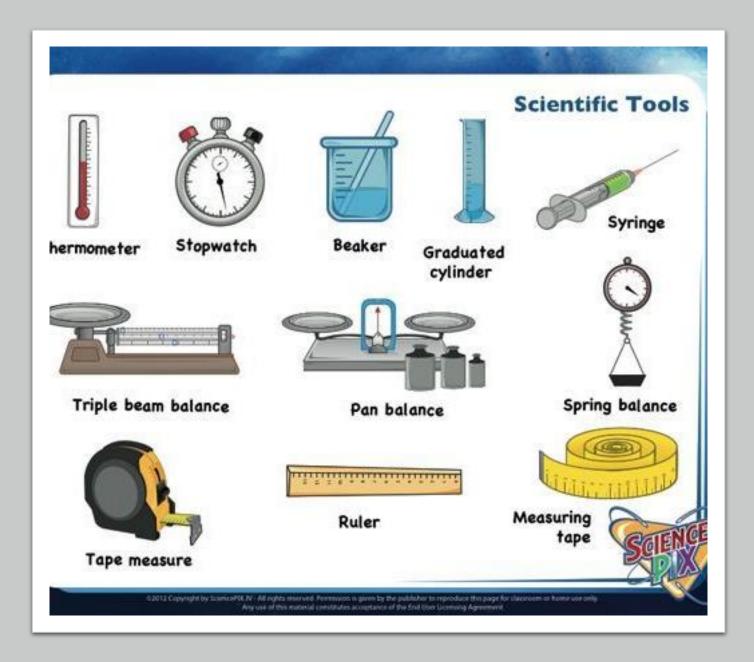
Types of Observations

- Qualitative
- Quantitative



Qualitative Observations

- Qualities
 - Characteristics
 - Descriptions
- Describe the object as though you are an alien that has never seen it before.

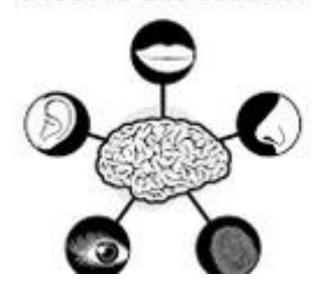


Quantitative Observations

- Quantity
- Number
- Measurement

Qualitative observations

use your senses to observe the results.



QuaNtitative observations

are made with instruments such as rulers, balances, graduated cylinders, beakers, and thermometers. These results are measurable. (numbers)



Quality vs. Quantity

Types of STEM Observations

Quantitative

Observations that use measurement tools

- Thermometer
- Measuring Tape
- Ruler
- Scale or Balance
- Measuring Cup
- Spring Scale
- Cylinder

Qualitative

Observations that use our senses

- Smell
- Taste
- Touch
- Sound
- Hearing

Quality vs. Quantity

Comparing Observations and Inferences

Sample Observations	Sample Inferences
The footprints in the soil each have five toes.	An animal made the footprints.
The larger footprints are about 20 cm long.	A bear made the footprints.
The space between each pair of footprints is about 30 cm.	The animal was walking, not running.

Inference

- Interpretation
- Judgement
- Conclusion

Assignment

- Complete the Benjamushi "Lab"
 - You will need your notebook

