

# Observing and/or Measuring a Phenomenon

*Evaluate: What is the best data to collect for the question being asked?*

- **Qualitative Observations**

- *Does your question need a description that can be observed with senses?*
  - Describing properties for:
    - Seeing - color, transparency, close/far ...
    - Smelling - good, minty, stinky ...
    - Tasting - sweet, bitter, salty ...
    - Hearing - loud, soft, tapping, ...
    - Feeling - rough, pointy, bendable ...
  - What tools will you use? (hand lense/microscope..)
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- **Quantitative Observations**

- *Does your question need numbers for evidence?*
- What measurement tool will you use to collect data?
- What measurement units will you use to best answer the question?
  - Non Standard Units (iterating an object like cubes, paper clips ..)
  - Metric units
- How/What will you count?
- What numbers will you compare?