# Sept. 29

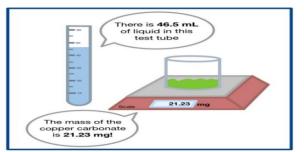
### **Data**

Quantitative data is anything that can be counted or measured; it refers to numerical data.

Qualitative data is descriptive, referring to things that can be observed but not measured—such as colors or emotions.

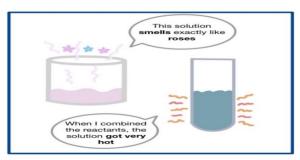


Based on numbers (measurement or counting)





Based on observations (involves the senses



# **Quantitative and Qualitative Data Examples**

#### **Quantitative Data**

- money
- · time
- speed
- movement
- · height
- length
- area
- volume
- · weight
- temperature
- · humidity
- pressure
- · sound level
- · categories (age, gender, occupation)
- · positioning
- status

#### **Qualitative Data**

- · verbal and written feedback
- narrative story
  - first-hand (direct experience)
  - second-hand (telling someone else)
- third-hand (outside story-teller)
- · visual images, drawings, or models
- · experiential sensations
- · descriptions of
  - colors
- feelings
- textures
- intuition
- smells
- sensations
- tastes
- appearance





# Qualitative vs. Quantitative

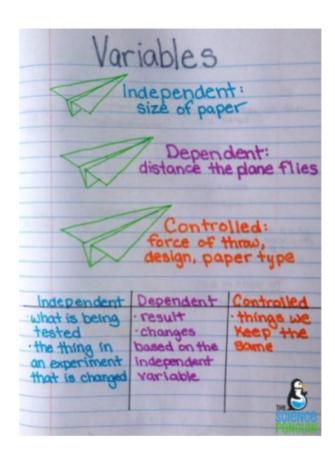
Read the following examples and then decide if each statement is Qualitative (QL) or Quantitative (QNT).

- 1. The candy was sour.
- 2. QNT The bug was 5 cm long.
- 3. The flower is red.
- 4. QNT The mass of the beaker was 122 g.
- 5. **Q N1** My fingernail is 2 cm long.
- Q L The slug was slimy.
- 7. \_Q L\_\_The laptop is white.
- Q NT She is 150 cm tall.
- You have 3 sisters.



# Quiz outline

- know the variables of the experiments
- -Know the 7 steps in order to an experiment



# Air Plane Experiment

