What is an observation?
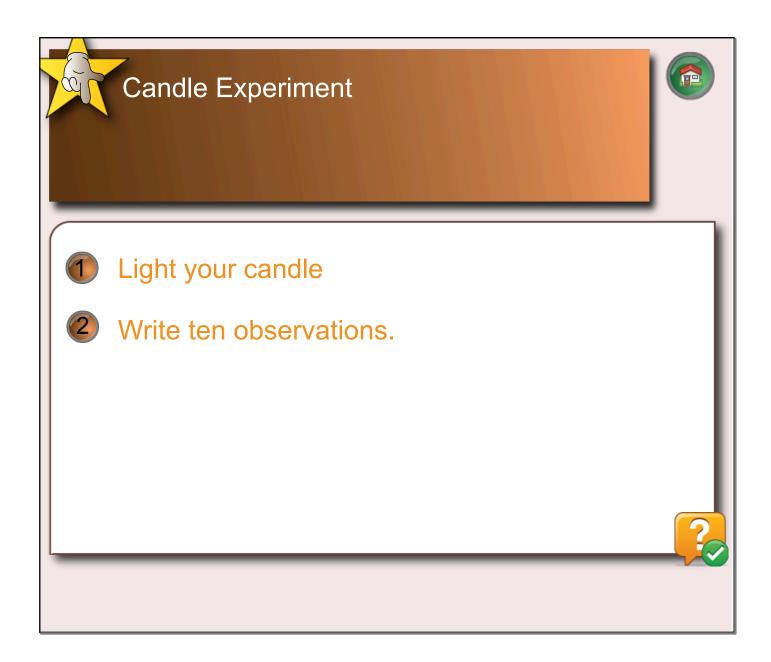
the process of gathering data
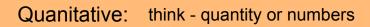
the act of noticing or perceiving

the use of one or more sense to gather information
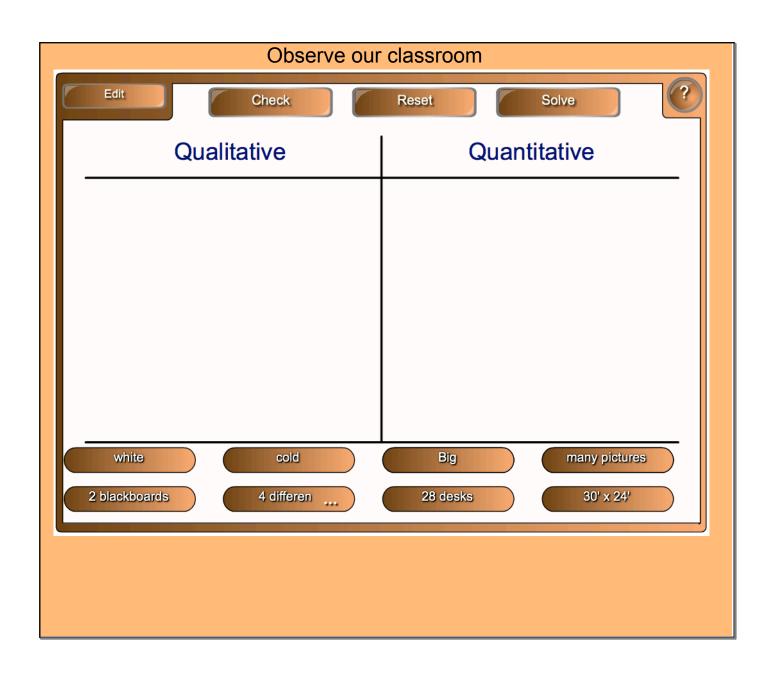
Ipod search

Candle Experiment

1. Light your candle

2. Write ten observations.

2 types of Observations:

Qualitative: think - quality or senses

Quanitative: think - quantity or numbers

Observe our classroom

Edit   Check   Reset   Solve   ?

Qualitative

Quantitative

white   cold   Big   many pictures

2 blackboards   4 differen ...   28 desks   30' x 24'

Candle Experiment
part 2

1. Relight your candle

2. Write ten more scientific observations.

CANDLE PART 2

Qualitative	Quantitative

Observation vs Inference

Observation: noticing specific details

Inference: making a statement about the
observation is called an inference.

it does not have to be true - it is
what a person perceives or believes
about the situation

a conclusion based on evidence

an author doesn't always tell you
everything - he often leaves you
guessing - or infering

Example of an inference

If you get up in the morning, look up at the sky and observe dark clouds, observe the air is cool and humid, and observe puddles on the ground, you might infer that it has recently rained.

Note: you did not see rain; you decided that it rained based on your observations.

| Observation: | VS. | Inference: |

That plant is extremely wilted

That plant is extremely wilted due to lack of water

The car has stopped running

The car has stopped running because it ran out of gas.

North Dundas Devils are first in the league.

The Devils are first in the league because they are playing really well right now.

move blocks to reveal examples

Where Babies Come From ?