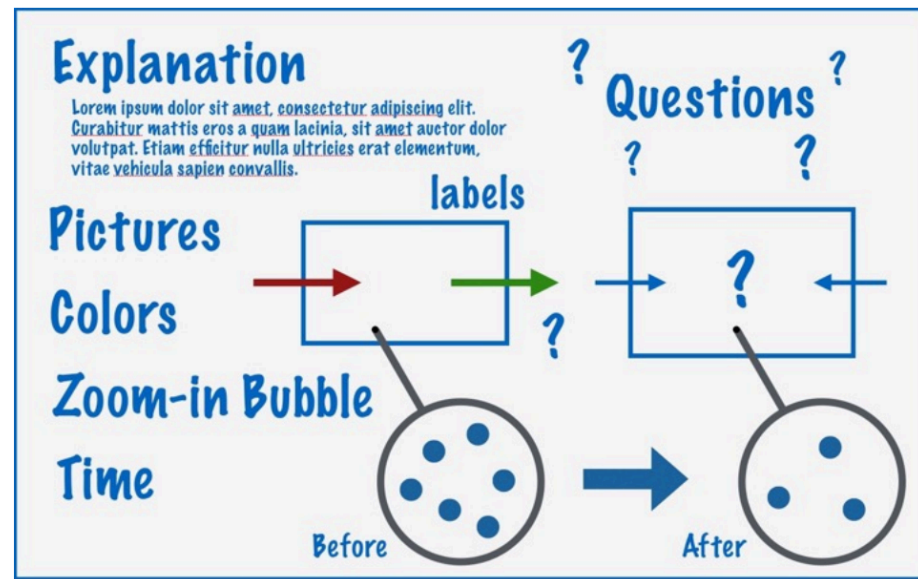These are components of a great model. Models show your current thinking and understanding. They are supposed to explain a phenomenon. Your models should change and be revised over time, as your thinking changes!
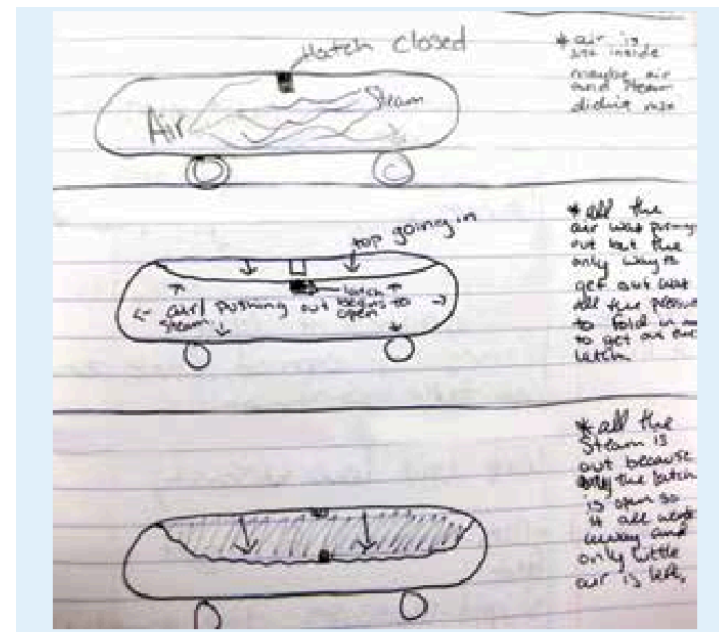
Notice that good models include:
- ❏ Changes over time
- ❏ Zoom-in's to show what the eye cannot see
- ❏ Dots to represent particles (molecules or atoms)
- ❏ Arrows can show change, or movement
- ❏ Labels on the pictures
- ❏ Relationships between items

Elements of a Scientific Model

Explanation
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur mattis eros a quam lacinia, sit amet auctor dolor volutpat. Etiam efficitur nulla ultricies erat elementum, vitae vehicula sapien convallis.

Pictures

Colors

Zoom-in Bubble

Time

Questions ? ? ? ?

labels

?

?

?

Before   After

https://thewonderofscience.com/documents

This is an example of a basic model. It shows a process - **changes over time**. The images are **labeled**, and additional text describes what is happening in this phenomenon.

This is a better example. Notice how the student uses dots to represent **particles** (molecules or atoms). They also use **arrows** to show the movement of particles.	
This is **NOT** a good example of a model. It is more like a poster. While the artwork is nice, it does not convey meaningful understanding. For example there is no representation of the concepts of "pressure" and "compaction." It does not show a mental picture of unseen scientific processes, nor does it explain a phenomenon.	