Day 1 Demos:

1. Sulfur or Sodium Chloride
2. Propanol or water
3. Density
4. Phase changes

Colour, Odor – senses

Density, Phase Changes – Physical Characteristics that are measurable: numerical expression.

Chemical Characteristics:

1. Flammability
2. Behavior in Water
3. Decomposition of Water
4. Spectra (special Characteristic property)

A hundred years ago, Auguste Compte, … a great philosopher, said that humans will never be able to visit the stars, that we will never know what stars are made out of, that that's the one thing that science will never ever understand, because they're so far away.

Purity: A material with a complete and unique set of characteristic properties – a self- consistent set that does not depend on amount. Each type of pure substance has a name – a chemical name

Mixture: has an inconsistent set of characteristic properties.