A student wants to test how sunlight affects plant growth. She places one Daisy on a windowsill and another Daisy in a cupboard. She waters the plant on windowsill everyday and the one in the cupboard once a week. After a month she records the number petals on each plant.

1)What is the dependent variable in this experiment?

- 2) Why is the experiment not fair?
- 3) How could she make the experiment fair?

 —> watr the Plants the same amount tach day.



I am the Substance that dissolves a solute?

A. Solution

B. Solvent

C. Solubility

I am a mixture of two or more materials that merge to form one set of Properties?

A. Solution

B. Solvent

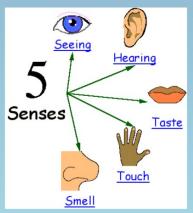
C. Solubility

The ability of a substance to dissolve? A. Solution B. Solvent C. Soluble



One of the physical properties of matter is its state.

Another way to describe physical properties is using our senses.



Physical Properties

What could we observe with from each of the 5 senses?

Examples

- i) Sight: color, bright, dull
- ii) Hearing: Bubbling, crackling, snapping
- iii) Taste: sweet, salty, bitter
- iv) Touch: Rough, soft, slimy,
- v) Smell: Sweet, rotten,

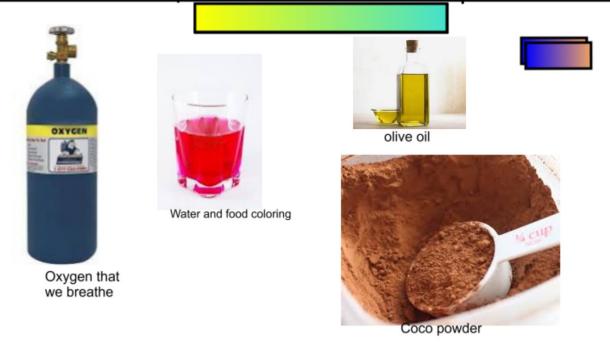
Some you can see But some you have to measure with devices.

Physical Properties

	Property	Describing the Property
	Colour	Is it black, white, colourless, red, greenish-yellow?
	Texture	feels Rough or smooth, slimy
	Odour	Is it odourless, spicy, sharp, burnt?
Ą	Lustre	Is it shinny, dull?
	Clarity	Is it clear, cloudy, opaque?
	Taste	Is it sweet, sour, salty, bitter?

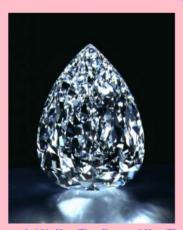
Fill in from your knowledge the blanks

Name of Substance		Physical Properties	State of matter
a)	Oxygen	colorless, smooth, odorless, cloudy	gas
b)	Cocoa Powder	brown, fine powder, bitter dull	solid
c)	Water with food coloring	red, smooth, odorless, dull	liquid
d)	Olive Oil	yellowish, oily, cloudy	liquid

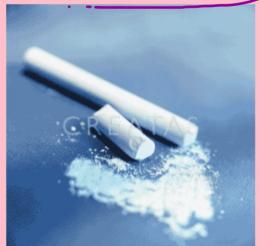


2) Hardness

The measure of the resistance of a solid to being scratched or dented.



Diamonds 101: How They Form and How They're Found - YouTube How Do They Mine Diamonds? - YouTube



flawless diamond at 203 carats. These types of diamonds are considered the rarest and the most valuable set of diamonds created. One of these only 10 carat diamonds cost in excess of 10 million dollars.