

QUALITATIVE OBSERVATIONS

- OBSERVING WITH OUR SENSES -

<u>SENSE</u>	<u>QUALITATIVE WORDS</u>
Touch	rough, sharp, blunt, cold, hot, slippery, sticky, stretchy, silky, smooth
Sight	red, green, shiny, dull, opaque, triangular, square, large, small, fast, slow, transparent, cylindrical, translucent
Smell	odourless, pungent, pleasant, strong-smelling, irritating, sickening, sweet
Hearing	noiseless, off-key, musical, low-pitched, shrill, loud, squeaky, muted, sharp
Taste	
Colour:	brown, greyish-brown, tan, black, greyish-black, dark brown, light brown, grey, red, reddish-brown, medium-brown, yellow
Texture:	dull, shiny, rough, gritty, smooth, powdery, granular, coarse, medium, fine, soft, rigid, crumbly, sticky.
Shape of Grains:	rounded, angular, jagged, oval, irregular, chunky, crystalline, stony, fragmented, lumpy
Odour:	musty, dusty, grassy, odourless, mouldy, rotten, putrid, messy, earth
Particle Size:	large, small, microscopic, little, tiny, minute

QUANTITATIVE OBSERVATIONS

- OBSERVING WITH OUR SENSES -

length, width, height, mass, volume, capacity, diameter

Name: _____

Date: _____



Qualitative and Quantitative Observations

Qualitative Data: Information gathered by observations in which no measurements take place (information is based on your senses)

Quantitative Data: Data that consists of numbers and/or units of measurement obtained through measurement and through mathematical calculations. Some types of measurement may include tape measure, ruler, stop watch, graduated cylinder, triple-beam balance, beaker, etc...

A student makes a number of observations while watching a burning candle. State whether each is *QUALITATIVE* or *QUANTITATIVE*:

1. The candle stick was 5 cm long _____
2. The candle is white in colour _____
3. The candle weighed 210g before it was lit _____
4. The candle was lit with a match _____
5. The flame was white in the middle _____
6. The candle burned for 20 minutes _____
7. The flame was hot when I put my hand next to it _____
8. The candle weighed 145g after burning _____
9. There was melted wax under the flame _____
10. The wax hardened upon cooling _____

Describe the object displayed by your teacher using 2 *QUALITATIVE* and *QUANTITATIVE* descriptions (use full sentences and underline the quantitative words in a different colour than the quantitative words).