South Pasadena • AP Chemistry

Name _____
Period ___ Date ___/___/___

1 • Matter & Measurement

CHEMICAL & PHYSICAL

We want to make sense of four terms: chemical properties, physical properties, chemical changes, and physical changes. Sometimes, it is easier to look at examples of these terms before we construct definitions.

	Physical	Chemical
Changes		
Properties		

Cut out the statements on the other page. As a group, decide into which category each statement belongs. Copy the statements into the boxes above. Be able to justify your answers.

Definitions:

	Physical	Chemical
Changes		
Properties		

Instructions: Work with a partner (or two). Cut out these terms and organize them into four groups:
Physical Changes Chemical Changes Physical Properties Chemical Properties

Color	Reacts with acid
Ice melting	Evaporating alcohol
Density	Temperature
Paper burning	Electrolysis of water
Alka Seltzer tablet in water	Length
Grinding chalk to dust	Burns in air
Changes litmus blue (or red)	Mass
Etching glass with acid	Chopping lettuce for salad
Weight	Thermal conductivity
Cutting your fingernails	Mixing red & blue food colors
Malleability	Soda foaming when shaken
Vinegar+baking soda foaming	Water boiling
Decomposes when heated	Discolors in air (like apples)
Brittleness	Electrical conductivity
Solubility in oil	Solubility in water