Chapter 3 Matter

Sec. 1 Matter Matter: _ Matter is classified into _____: (stronger the _____, more rigid the matter) Table 3.1 pg. 57 Sec. 2 Physical and chemical properties and Changes **Properties:** -Physical: -Chemical: (A substance changes to: rusting of iron, burning of wood Are these physical or chemical properties? a. b. c. d. Changes- Physical and Chemical Physical: Water, H₂O Liquid cools to _____, or heats to _____. Fig. 3.2 pg. 59 The ______ and _____ between molecules have _____. Chemical: Electrolysis of water. A current is passed through water

and:

)

This is a reaction.

Classify these as chemical or physical changes:

- a. b. c.
- d.

Sec. 3 Elements and compounds

All matter is: _____, others are

Compounds are:

Compounds have:

. They can be broken down into elements by

_____·

Elements

Compounds

(contain one kind of atom)

(contain atoms of different elements)

Know these:

Almost all matter consists:	
Mixtures have a	·
Wood-	
Soil –	
salad —	
Pure substances always:	
Mixtures can be separated into:	
-homogeneous:	(solution)
vary :	in composition from one region to
another in the sample.	
()
-heterogeneous:	
Regions that have	from other regions.
()
Ex. 3.3 Pure substance, homog	geneous mixture(solution) or
heterogeneous mixture:	
a. gasoline	b. stream with gravel
c. air	d. brass
e. copper metal	
Sec. 5 Separation of mixtures	
Distillation: heating a liquid	to its, and
condensing it back to a	in another
for dissolved particles)	
Filtration:	a mixture onto a, or
	ws to pass through and