

## Ch 1/ PowerPoint Study– Study of Matter

Name:

*Answer these questions as you are watching the videos. They are due in class.*

*These questions are not just for you to answer but also to prepare you for the exam.*

*Make sure you understand what you are writing and not just copy from the text book. **Show all work.***

1. Scientific Method:

a) What are the stages of the scientific method that leads to a law?

b) Which part of scientific method should be duplicated to be verified?

2. States of Matter: Classify the following into solid gas or liquid.

Water

Salt

Oxygen

Carbon Dioxide

Gold

3. Mixtures: Circle the homogeneous mixtures in the following.

Copper penny

Table sugar

Salad Dressing

Dust Storm

### Properties of Matter

4. Physical/Chemical: Circle the choice of chemical properties in the properties below.

- a) Density of water is greater than gasoline.
- b) Copper is a great conductor of electricity.
- c) Sodium changes color in presence of air.

5. Chemical and Physical Change: Circle the choice of chemical changes in the examples below.

- a) Iron rusted in presence of salt and water.
- b) Milk sours to give curdled milk.
- c) Hydrogen conducts electricity.

6. Qualitative/Quantitative: Circle the choice of qualitative analysis below.

- a) The color changes from red to yellow.
- b) The titration requires 2.30 milliliters of acid.
- c) Mixing of two solutions resulted in formation of gas.
- d) The solid formed from the reaction weighed 3.500 grams.

7. Extensive/Intensive: Circle the choice of extensive properties below.

- a) The mass of the water changes as the volume is increased.
- b) Ice melts at 0°C.