

Ch 1/ PowerPoint Study– 1 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

Salad Dressing

Tap water

Dust Storm

Properties of Matter

4. Physical/Chemical: Circle the choice(s) 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 reacts with water to produce hydrogen.

5. Chemical and Physical Change: Circle the choice(s) 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(s) 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(s) of extensive properties below.

a) The mass of the water changes as the volume is increased.

b) Ice melts at 0°C.