

The Importance of Physical Properties  
Science Ch. C1, Lesson 1, P. c6-11

I. Matter and Physical Properties

A. Matter is anything that has mass and takes up space.

1. \_\_\_\_\_

2. \_\_\_\_\_

B. Objects made of matter can be very different from each other.

1. \_\_\_\_\_

2. \_\_\_\_\_

C. There are two ways to determine physical properties.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

II. Mass and Weight

A. One physical property that can be measured is mass

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

B. Weight and mass are often confused with each other, but they are different.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

C. Weight and mass are measured by different scales.

1. \_\_\_\_\_

2. \_\_\_\_\_

III. Volume

A. Matter takes up space.

1. \_\_\_\_\_

2. \_\_\_\_\_

B. The volume of liquid is measured with a graduated cylinder.

1. \_\_\_\_\_

2. \_\_\_\_\_

C. The volume of some solids can be calculated.

1. \_\_\_\_\_

D. Here is an example of how to calculate the volume of a solid.

1. \_\_\_\_\_

E. Irregular shapes can also be measured.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

IV. Density

A. Density can be used to identify some objects.

1. \_\_\_\_\_

2. \_\_\_\_\_

B. Density is the concentration of matter in an object.

1. \_\_\_\_\_

2. \_\_\_\_\_

C. Here is an example of calculating density.

1. \_\_\_\_\_

D. Pure substances always have the same density when measured under the same conditions.

1. \_\_\_\_\_

Number/Name: \_\_\_\_\_

Date: \_\_\_\_\_

E. Density can be used to identify some objects.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

V. Mixtures and Solutions

A. Most objects are not pure substances.

1. \_\_\_\_\_

2. \_\_\_\_\_

B. In some mixtures it is easy to tell that each type of matter keeps its physical properties.

1. \_\_\_\_\_

2. \_\_\_\_\_

C. Mixtures can be separated into the substances that make them up.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

D. Solutions are mixtures where the particles of the two substances are evenly mixed.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

E. Solubility can be used to identify substances.

1. \_\_\_\_\_

2. \_\_\_\_\_

