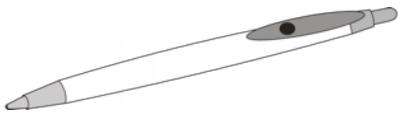
Matter: Measuring Unit Study Guide

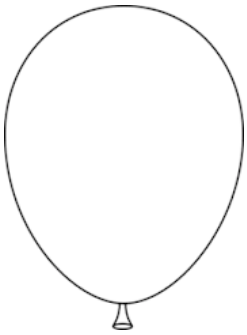
Match these words to their definitions:

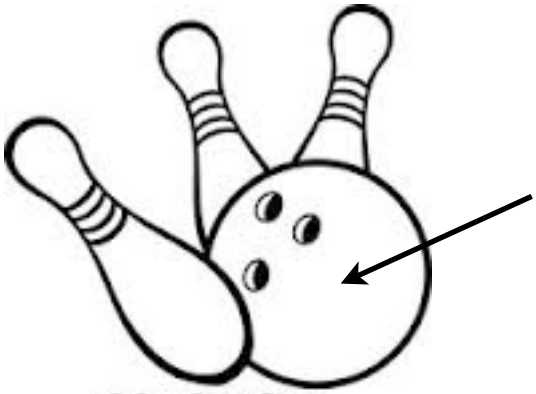
matter, mass, weight, volume, density, meniscus

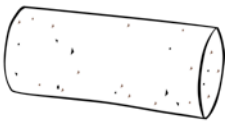
1. _____ the amount of space that an object occupies (takes up)
2. _____ the measure of the amount of mass in a certain amount of space
3. _____ anything that has mass and takes up space
4. _____ the curve in the upper surface of a liquid
5. _____ a measure of the gravitational force on an object
6. _____ the amount of matter in an object

Circle the object in each pair that is more dense. (The test may use other objects, be sure you know the skill!)









Be able to tell whether something IS matter, or IS NOT matter. List some examples here:

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Match each process description to what it allows you to measure and the unit that is usually used for each measurement.

To measure _____ (reported in _____):

1. Zero the empty balance.

2. Place the object onto the balance's pan.

3. Move the masses one at a time (start with the largest) until the balance's lines are lined up.

4. Add together the masses to know the total for that object.

To measure _____ (reported in _____):

1. Pour it into the graduated cylinder.

2. Read the level at the bottom of the meniscus.

To measure _____ (reported in _____):

1. Pour water into the graduated cylinder and record its level.

2. Place the object into the graduated cylinder and record the level of the water.

3. Subtract the first measurement from the second.

To measure _____ (reported in _____):

1. Measure the length, width, and depth of the object.

2. Multiply those measurements together.

To measure _____ (reported in _____):

1. Place the object on the balance. Record that measurement.

2. Find the object's volume.

3. Divide your first measurement by the volume.

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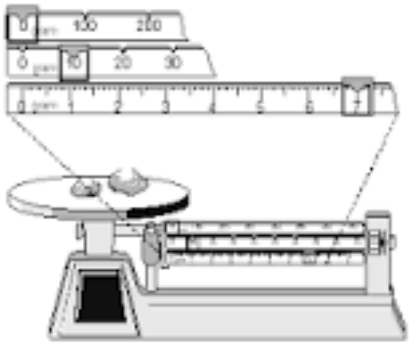
Label these scientific measurement tools with their names AND tell what they are used to measure.

name: _____

used to measure: _____



name: _____

used to measure: _____

name: _____

used to measure: _____

Circle the measurements that would <u>change</u> if you measured them on the moon.

mass density volume weight

Circle the measurements that would <u>stay the same</u> if you measured them on the moon.

mass density volume weight