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| Name: | Class: | Date: |

**Think/Pair Share:**

What measurement unit is used for a box of juice? How about a bag of chips? Answer these questions below and brainstorm other measurement units you know.

**Measuring Mass:**

The mass of an object is a measure of the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the object.

Large masses are measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Small masses are measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Very small masses are measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The mass of an object can be measured in two ways:

* Direct measurement which uses a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is known as “direct” because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Indirect measurement which uses a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ you are measuring. It is known as “indirect” because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The formula to calculate the mass of a liquid is:

**Measuring Volume:**

The volume is a measure of the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is occupied by matter.

Large volumes are measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Small volumes are measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The volume of a liquid can be measured using a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Read the volume of a liquid from the bottom of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, (the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ created when liquid is placed in a container).

The volume of a rectangular solid can be measured using the formula:

The volume of an irregular solid can be measured using the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method.

The formula for calculating the volume of an irregular solid is:

**Think pair/share:**

Discuss: Why is it important to have standard measurement for mass and volume?