

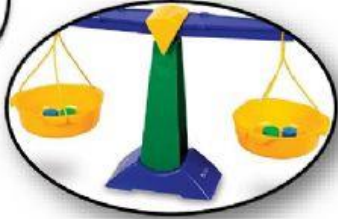
NAME: _____ DATE: _____



•Match each word with its tool to measure.

Mass

Volume



•Match each word with its units of measurement.

Mass

Volume

Grams (g),
kilograms (kg),
pounds (lb)

Cubic meter (m³),
cubic centimeter
(cm³), liter (L) or
milliliter (ml)



•Choose Volume [v] or Mass [m] according to the sentence.

- You can measure it with a balance or scale on earth
- You can measure it in grams
- You can measure it with a graduated cylinder
- Is the amount of matter an object contains
- Is the amount of space that something occupies
- You can measure it in liters



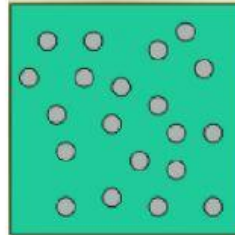
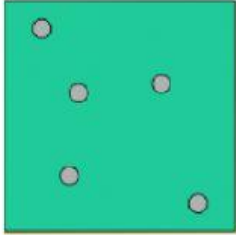
• **Mass** is the amount of matter in an object, you can imagine it like a box with particles inside.

The more particles inside of an object, the more **matter** it has.

Or in other words...

The more particles inside, the more **mass** it has.

Select the box with more mass.





•**Suppose** you fill two boxes of same size, one with cotton and other with sand.
Which one will have more mass?

- ☐ The box with cotton
- ☐ The box with sand





•Now let's change things a little.

Suppose you need to buy 2 kilograms of cotton and 2 kilograms of sand.

Which one will have more mass?

- ☐ The 2 kilograms of cotton
- ☐ The 2 kilograms of sand
- ☐ Both have the same mass

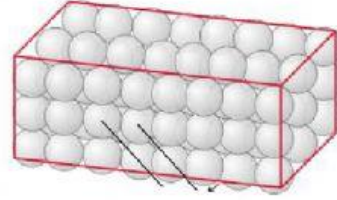




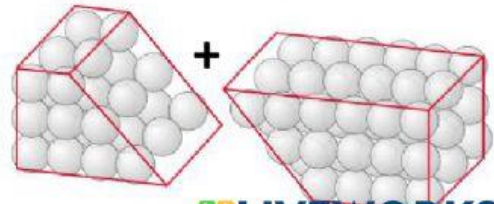
•Suppose you cut in half the 2 kilograms box that has cotton, like in the image.

What will be the sum of the **mass of the two new boxes** of cotton?

- ☐ The **total mass** will be 2 kilograms
- ☐ The **total mass** will be 1 kilogram
- ☐ There is no way to know the **total mass**



total mass is the sum of the pieces





•Choose the correct way to measure the volume of a piece of gold and a piece of iron.



☐ Place the iron bar in an empty cylinder and measure with a ruler the mark it reaches, same with the gold piece.

☐ Place water in each graduated cylinder, then put the iron bar in one cylinder, the gold piece in other cylinder and see how much water rises.

☐ Place water in a graduated cylinder, then put the iron bar and the gold piece in the same cylinder. Then see how much water rises and divide that number in two.

