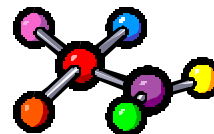


What is Matter?



Key Words:

Mass: *how much matter is in an object, similar to its weight*

Volume: *how much space an object takes up*

Matter: *anything that has both mass and volume*

Matter is all around us. The table in front of you, the water you drink and the air you breathe are all forms of matter. Matter is made up of many particles that are too small to see. These particles each have some mass and volume. These particles join together to make things that have amounts of mass and volume we can measure.

Mass is not the same as weight. When you weigh something you are measuring the pull of gravity on that object. This is because scales that measure weight use a spring. If you weigh 100 pounds on Earth you will not weigh 100 pounds on Mars. This is because Mars has less gravity. Mass is measured using a balance. Because gravity will affect both sides of the balance the same way, it will not affect your measurement of mass. Mass will stay the same measured on Earth or any other planet or moon.

There are things on Earth that are not matter. Light, sound and heat are not matter; they are forms of energy.

1. Circle the equipment used to measure mass



2. If you use a bathroom scale on Mars would it give you the same weight as on Earth?
(Circle)

Yes

No



3. Volume measures how much _____ an object takes up.

Circle the picture that best shows volume.



or

