

Matter is anything that has mass and takes up space. That is why mass and volume are the properties of matter. Find out about the different kinds of matter: conductors, insulators, and magnets.



Key vocabulary

weight

The force of gravity on an object's mass. It is measured in pounds or Newtons (N). An object's weight depends on its location in the universe. However, the object's mass remains the same anywhere in the universe.

volume

The amount of space taken up by a three-dimensional shape such as a box or a room.

matter

Anything that has weight and takes up space as a solid, liquid, or gas.

mass

The amount of physical matter an object contains.

density

The measure of how light or heavy something is for its size. Density is measured by dividing an object's mass by its volume.

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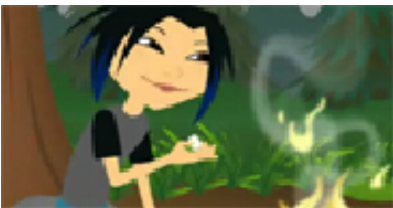
Atoms: Protons, Neutrons, Electrons

Atoms are everywhere. They are in everything. So what are atoms made of? We have the scoop!



Elements & Compounds

Mixtures mix, but they stay physically separate. When two or more elements combine on a chemical level, a compound is what you get.



Physical & Chemical Changes of Matter

Matter does not have to stay the same. It has a lot of ways to change its properties. Check it out!



Mixtures

What is your favorite snack when you go hiking? If it is trail mix, then you like to snack on mixtures!



Gravity & Inertia

There is a special force of attraction that keeps our planet together. Do you know what it is?