

## What is Matter

### Matter & Kitchen chemistry unit



Water is everywhere-even in the air!



What are the familiar objects pictured above? How can you describe them if you didn't know what they were?

People describe objects in many ways using size, shape, colors, and textures.

A property describes how an object looks, feels, or acts. The objects shown here have different kinds of properties:



Name one property of the birthday present \_\_\_\_\_

Name one property of the lemons. \_\_\_\_\_

Name one property of strawberries. \_\_\_\_\_

### Properties of all objects

1. Objects take up space. All objects take up space. Your computer is taking up space on the desk. You are taking up space on the chair.

2. Objects have mass. Mass is how much there is of an object. Mass is related to how much something weighs. Mass and weight are two different things. The unit for mass is a gram. A nickel has the mass of about one gram.

Objects that take up space and have mass are called matter. Everything around you is made up of matter. Chocolate cake is made up of matter. You are made of matter. If you are having trouble understanding matter, look all around you. You can see matter makes up the walls of your house and your classroom. Matter is large and matter is small. Let's take this carrot: Let's get closer and closer to the smaller parts of the carrot-carrot atoms!



These small parts of the carrot are called atoms. Anything you see and can feel is made of atoms. All atoms are too small to be seen with the naked eye or even a microscope, although there are some new types of microscopes that are now able to see larger atoms such as gold.

All matter is the same because all matter is made up of atoms. Matter is also different because objects can be made up of different kinds of atoms. Gold is made of one kind of atom-gold atoms. Salt is made up of two different kinds of atoms-sodium atoms and chloride atoms.

Name the items in this picture of a dog's Christmas party that are made of matter:

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