

5th Grade Science Review

Name: _____

Science Review: Draw pictures and label the parts of the items described below.

Atoms

All matter is made of atoms that are too small to be seen with the naked eye.

Molecules

Molecules are made from 2 or more atoms joined together. You can have molecules of elements or compounds

Elements

There are more than 100 known elements that make up all matter. The smallest part of an element is an atom. Elements are described by the number of protons in their nucleus

Compounds

When two or more elements combine to form a new substance, it is called a *compound*. Examples include water (H₂O) and table salt (NaCl). The smallest part of a compound is a molecule.

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<p style="text-align: center;">Mixtures</p> <p>A <i>mixture</i> is a combination of two or more substances that do not lose their identifying characteristics when combined.</p>	<p style="text-align: center;">Solutions</p> <p>A <i>solution</i> is a mixture in which one substance dissolves in another.</p>
<p style="text-align: center;">Gas</p> <p>The molecules in a gas are spread out and move very fast. They have no definite shape.</p>	<p style="text-align: center;">Liquid</p> <p>The molecules in a liquid are closer together and slip and slide around each other. They take the shape of the container they are in.</p>
<p style="text-align: center;">Solid</p> <p>The molecules together a close together and vibrate in place.</p>	<p>As its temperature increases, many kinds of matter change from a solid to a liquid to a gas. As its temperature decreases, that matter changes from a gas to a liquid to a solid.</p>

Mass	Volume
Mass is the measure of how much matter is in an object. Mass is measured in _____.	Volume is the measure of how much space matter takes up. Volume is measured in _____.
Mass can be measured with a:	Volume is measured with a:

<p>Cut out the following definitions and key vocabulary words to play a matching game at home. Draw and label a picture on the vocabulary words to help you.</p>	
<p>Living things are made of:</p>	<p>cells</p>
<p>Using a _____ you can see many parts of a cell.</p>	<p>microscope</p>

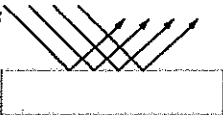
Plant cells tend to be:	rectangular
The control center of the cell is the:	nucleus
The jellylike substance in a cell is the:	cytoplasm
The water and waste storage sacs in a cell are called:	vacuoles
The outer layer of an animal cell is the:	cell membrane
Plant cell have cell membranes but they have another stiff outer layer called the:	cell wall
Plants cell also have _____ which hold chlorophyll needed for photosynthesis.	chloroplasts


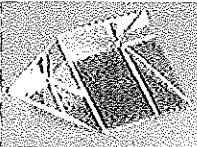
Name the 5 kingdoms of living things.	Plants, Animals, Fungi, Monera, Protists
To which kingdom to bacteria belong?	Monera
To which kingdom to mushrooms belong?	Fungi
To which kingdom do most algae belong?	Protists
Are most plants vascular or nonvascular?	Vascular
Plants that do not have special veins to transport food and water are:	nonvascular
Name a nonvascular plant.	moss

Animals with backbones are:	vertebrates
Animals without backbones are:	invertebrates
Snakes, lizards and fish are:	vertebrates
Clams, squid, worms and insects are:	invertebrates
The ocean covers how much of the Earth?	70%
The shallow parts of the ocean floor at the edges of the continents make up the:	continental shelf
The salinity of the ocean varies. Salinity means:	saltiness

Wind patterns and different water densities cause:	ocean currents
As the depth of the ocean increases, what else increases?	water pressure
As the depth of the ocean increases, what decreases?	temperature and the amount of light
An ocean current which carries warm water from the equator to Europe is:	The Gulf Stream

_____ is a combination of several different wavelengths of light traveling together.	white light
The wavelengths of light from longest to shortest are red, orange, yellow, green, blue, indigo, violet. To remember this we use:	Roy G. Biv

<p>The color light with the longest wavelength is:</p>	<p>red</p>
<p>1. The color light with the shortest wavelength is:</p>	<p>violet</p>
<p>Light travels much _____ than sound through the atmosphere.</p>	<p>faster</p>
<p>It takes light from the sun _____ to travel 150 million km to Earth.</p>	<p>8 1/2 minutes</p>
<p>Light travels in straight paths called:</p>	<p>rays</p>
<p>Light travels fastest through:</p>	<p>a vacuum or empty space</p>
<p>When light bounces off an object, it is:</p> 	<p>Reflected</p>

<p>When light bends, it is:</p> 	<p>Refracted</p>
<p>When light passes through an object, it is:</p>	<p>transmitted</p>
<p>Light passes easily through a window because the glass is:</p>	<p>transparent</p>
<p>Some light can pass through wax paper. Wax paper is:</p>	<p>translucent</p>
<p>Light can't travel through a wall. A wall is:</p>	<p>opaque</p>
<p>When white light passes through a _____, the wavelengths bend at different angles, so we see a rainbow of colors.</p> 	<p>prism</p>

An instrument that uses columns of air to make sound	Brass
An instrument that produces sound with vibrating strings is a-	string
An instrument that makes sound by vibrating the surface is a-	Percussion
An instrument that makes sound by vibrating a wooden reed is a-	Woodwind
Light can't travel through a wall. A wall is:	opaque
	prism