

**Instructions:** Cut and paste all the substances on the next page into one of the categories in this table. Scissors and glue sticks are provided.

Element	Compound	Homogeneous Mixture	Heterogeneous Mixture

Cut these along the lines.



A piece of <b>iron</b> (Fe)	<b>Water mixed with sawdust</b>	<b>Dishwashing Liquid</b> (green, clear)	<b>Oil and water</b>
<b>Calcium</b> metal (Ca)	<b>Orange Juice</b> with pulp	Clear <b>CoolAid Drink</b>	<b>Chocolate chip cookies</b>
<b>Gasoline</b> - contains several different compounds	<b>Calcium Chloride</b> (one substance; contains Ca and Cl)	<b>Brass</b> instrument (alloy containing Cu and Zn)	<b>Carbon dioxide</b> gas (CO <sub>2</sub> )
<b>Helium</b> gas (He)	<b>Hydrogen</b> gas (H <sub>2</sub> )	Distilled <b>vinegar</b> (clear, contains water and acetic acid)	<b>Rusty Nail</b> (iron and iron oxide - rust)
<b>Hydrogen Peroxide</b> (one substance containing H and O)	<b>Table Salt</b> (sodium chloride; contains Na and Cl)	<b>Soil</b> (contains sand, little stones and organic matter)	<b>Baking Soda</b> (one substance containing Na, H, C, O)
Liquid <b>Nitrogen</b> (N <sub>2</sub> )	<b>Octane</b> (one substance, part of gasoline; C and H)	<b>Air</b> (mostly nitrogen gas, but also oxygen and other gasses)	<b>Earring</b> containing mostly gold, but some copper (alloy)
<b>Mercury</b> (a metal that is liquid at room temperature; Hg)	Clear <b>salt water</b>	<b>Diamond</b> (contains only C)	Toy box with <b>Lego pieces</b> (different color and sizes)
<b>Oxygen</b> gas (O <sub>2</sub> )	<b>Chalk</b> (calcium carbonate - one substance containing Ca, C, and O)	<b>Water with food coloring</b> (clear solution)	<b>Soda drink with ice cubes</b>
<b>Water mixed with foam beads</b>	<b>Sugar</b> (one substance; contains C, H, and O)	<b>Magnesium Phosphate</b> (one substance; Mg, P, O)	<b>Sulfur</b> powder (S)

\*\*\*\*\* END \*\*\*\*\*