

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

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