Changing Matter

physical change	begins and ends with the same type of matter
causes of physical change	cutting, crushing, tearing, stretching, bending
signs of physical change	change in size, shape, texture or state
change of state	any physical change of matter from one state to another, because of a change in the energy
causes of change of state	boiling, heating, melting, cooling, condensing, freezing
chemical change	produces new matter with different properties from the original
signs of chemical change	change in scent, color, bubbling, fizzing, light or heat
rust	result of chemical change with iron and oxygen
tarnish	result of chemical change with sulfur and silver
mixture	two or more types of matter are mixed, but each keeps its own properties
solution	a mixture where the different types of matter are evenly mixed in another kind of matter
alloy	a mixture of two or more elements where on is a metal
filter	separates matter by size
filtration	the process that separates matter by size
distillation	a solution that is heated until the liquid becomes a gas (evaporates), then is cooled (condensed) and collected
evaporation	a solution that is heated until the liquid becomes a gas and leaves the solid behind
compound	a substance made when two or more elements are joined together (combined chemically) and lose their own properties
acid	a substance that turns blue litmus paper red (foods like lemons, vinegar)
base	a substance that turns red litmus paper blue (soapy products and bitter foods)

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