

Name: _____

Chemistry Practice: Matter; Properties and Changes

1. Identify as either a (P)hysical or (C)hemical property or change.

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|--|---|
| a.) _____ B.P. = 78°C | n.) _____ sugar dissolves in water |
| b.) _____ diamond is very hard | o.) _____ sugar does not dissolve in oil |
| c.) _____ sugar ferments into alcohol | p.) _____ Hg expands in a thermometer |
| d.) _____ metal wire conducts electricity | q.) _____ Food is digested in the stomach |
| e.) _____ Ga melts in your hand | r.) _____ Sharpening a pencil |
| f.) _____ Platinum is inert in oxygen | s.) _____ Ginger-ale goes flat |
| g.) _____ The page is white | t.) _____ photosynthesis |
| h.) _____ Cu on Statue of Liberty is greenish | u.) _____ water freezes |
| i.) _____ Fe rusts | v.) _____ A wound heals |
| j.) _____ Wood burns in air | w.) _____ H ₂ O evaporates |
| k.) _____ Coal is pulverized in a mortar with a pestle | x.) _____ Coal is converted into nylon |
| l.) _____ Pb is malleable | y.) _____ C is converted into diamond |
| m.) _____ Milk turns sour | z.) _____ C is converted into Au |

2. Classify as either (E)lement, (C)ompound, Ho(M)ogeneous mixture, or He(T)erogeneous mixture.

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|---|---|
| a.) _____ Antimony | k.) _____ milk |
| b.) _____ 5% vinegar | l.) _____ salt |
| c.) _____ limestone gravel | m.) _____ saline |
| d.) _____ carbon dioxide | n.) _____ Air |
| e.) _____ Red blood cell | o.) _____ Earth |
| f.) _____ Mercury | p.) _____ C ₆ H ₆ |
| g.) _____ Na ₂ CO ₃ | q.) _____ rust (oxidized Fe) |
| h.) _____ Soil | r.) _____ Amalgam alloy |
| i.) _____ Dilute Hydrochloric acid | s.) _____ Chemistry textbook |
| j.) _____ 5 drops food coloring in 1 pint water | |