

# Heterogeneous Mixture - Homogeneous Mixture

## Worksheet-Answer Key

**Exercise 1.** Describe the following as an element, a compound, a homogenous mixture, or a heterogeneous mixture:

- a) a pure silver ring                      \_\_\_\_\_element\_\_\_\_\_
- b) pure water                                \_\_\_\_\_compound\_\_\_\_\_
- c) sugar water                                \_homogeneous mix\_\_\_\_
- d) pure magnesium oxide (MgO)        \_\_\_\_\_compound\_\_\_\_\_
- e) air, containing O<sub>2</sub> and N<sub>2</sub>            \_homogeneous mix\_\_\_\_
- f) soil    \_heterogeneous mix\_\_\_\_
- g) sand stirred in water                    \_heterogeneous mix\_\_\_\_

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- |                                     |                          |
|-------------------------------------|--------------------------|
| h) pure boiling water               | <u>compound</u>          |
| i) limestone ( $\text{CaCO}_3$ )    | <u>compound</u>          |
| j) marble                           | <u>heterogeneous mix</u> |
| k) blood                            | <u>heterogeneous mix</u> |
| l) $\text{HCl}$ ( <i>aq</i> )       | <u>homogeneous mix</u>   |
| m) $\text{HCl}$ ( <i>g</i> ) in air | <u>homogeneous mix</u>   |
| n) brass with 60% zinc content      | <u>homogeneous mix</u>   |
| o) brass with 40% zinc content      | <u>homogeneous mix</u>   |
| p) iron                             | <u>element</u>           |
| q) steel                            | <u>heterogeneous mix</u> |
| r) diamond-coated steel tool        | <u>heterogeneous mix</u> |