

1. Complete the definitions.

- a) Reflection occurs when light hits a _____ surface and is reflected _____.
- b) Diffusion occurs when light _____ and is reflected _____.
- c) Electricity is a form of _____ that is created when _____.
- d) A homogeneous mixture is one in which the components _____.
- e) A heterogeneous mixture is one in which the components _____.

2. Give an example of a mixture that can be separated using the following techniques.

- a) Filtration: _____
- b) Evaporation: _____
- c) Distillation: _____
- d) Dissolution: _____

3. Complete the diagrams to represent these chemical reactions.

Combustion: Fuel + oxygen = _____ energy, _____ and _____

Oxidation: Iron atoms - electrons = _____

Fermentation: Sugar + yeast = _____

Bacteria + carbohydrates in milk = _____

4. Answer the questions.

- a) What type of mixture is a solution an example of?

- b) What problems can combustion cause?
