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| **Skill 7.01 Exercise 1** |
| Classify each of the following changes as chemical of physical  (a) wood turning into paper  (b) food coloring dissolving into water  (c) hydrogen and oxygen forming water  (d)  (e)  +  (f) S2(s) + 2Zn(s) 🡪 2ZnS(s)  (g) CO2(s) 🡪 CO2(g) |

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| **Skill 7.02 Exercise 1** |
| Classify the following as either a pure substance or mixture:   1. Gatorade 2. Rubbing alcohol (isopropyl alcohol) 3. Gasoline 4. Tap Water |

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| **Skill 7.03 Exercise 1** |
| Refer to the table below to determine whether each of the following mixtures could be classified as heterogeneous or homogeneous.   |  |  |  |  | | --- | --- | --- | --- | |  | **Sand** | **Salt** | **Sugar** | | **Ethanol** | Insoluble | Insoluble | Soluble | | **Water** | Insoluble | Soluble | Soluble |  1. Ethanol and salt 2. Ethanol and sugar 3. Water and sand 4. Water and sugar |



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| **Skill 7.04 Exercise 1** |
| Which of the following are compounds: baking soda (NaHCO3), graphite (C), dry ice (solid CO2), sodium (Na), Sulfur (S8), Nitrogen (N2) |

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| **Skill 7.04 Exercise 2** |
| Refer to the illustration below to answer the following   |  |  |  |  | | --- | --- | --- | --- | | **A** | **B** | **C** | **D** | |  |  |  |  |  1. Which figure or figures best represents a pure substance? 2. Which figure of figures best represents a single compound? 3. Which figure or figures best represents a single element? 4. Which figure or figures best represents a mixture 5. Which figure of figures best represents a compound and an element |

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| **Skill 7.05 Exercise 1** |
| Use the information below to propose a method for separating out a mixture of sand, salt, sugar, and iron.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Sand** | **Salt** | **Sugar** | **Iron** | | **Ethanol** | Insoluble | Insoluble | Soluble | Insoluble | | **Water** | Insoluble | Soluble | Soluble | Insoluble | | **Attracted to a magnet** | No | No | No | Yes | |
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