|  |  |  |
| --- | --- | --- |
| *compounds*CλeMis+ry eagenest@madison.k12.wi.us |  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |
| --- | --- |
|  | Categorize each square as either mixture, element, or compound:A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

1. Into the blanks below write the following words: *Mixtures, Mixtures of Compounds, Mixtures of Elements, All Matter, Substances, Compounds, Elements, Mixtures*







|  |  |
| --- | --- |
| 1. Under each box write *solid, gas, or liquid*.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | Circle your choice,These boxes *all* contain aElement?Compound?Mixture? |

|  |  |
| --- | --- |
| 1. Under each box write *solid, gas, or liquid*.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | Circle your choice,These boxes *all* contain aElement?Compound?Mixture? |

1. Identify the separation techniques pictured below. Which technique would be useful to separate a mixture of sand and salt? Of salt and water?

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1. Explain why the technique at left would not be effective in separating a mixture of salt and sugar.
2. Draw particle representations for the following:

|  |  |
| --- | --- |
| A mixture of iron and sulfur | A compound of iron and sulfur |
|  |  |