**GPS – Heterogeneous and Homogeneous mixtures**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| I can… |
| *Distinguish between homogeneous and heterogeneous mixtures.* |



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| ***Pre-Lab Questions – Complete quietly on your own first!*** | |
| 1. List 3 physical properties. |  |
| 1. What is a physical change? |  |

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| ***Lab* *Demonstration*** | |
| 1. We need one volunteer! Write the **name** of our volunteer. Then write the color our volunteer chose. |  |
| 1. PREDICT what will happen when our volunteer will put the oil and water into the bottle. |  |
| 1. Observe. Describe what you see. |  |
| 1. WHY do you think this happened? |  |
| 1. What is the density of water? |  |
| 1. What MUST the density of the mineral oil be? Estimate. |  |
| 1. We have observed differences in density, which is a physical property. What other physical properties can you observe? |  |
| 1. The liquids are NOT chemically combined. What type of mixture is this? |  |
| 1. We need another volunteer. Write the name of our volunteer. |  |
| 1. Our volunteer will mix two substances together. List the substances. |  |
| 1. Record your observations. |  |
| 1. What type of mixture is this? |  |
| 1. Now, see the container with just Hershey kisses. What would this represent? Each “atom” has the same properties as the rest. Is it an **element**, a **compound**, or a **mixture**? |  |
| 1. See the next container. They are chemically combined in fixed ratios. What does this represent: an **element**, a **compound**, or a **mixture?** |  |
| 1. See the next container. They are chemically combined in fixed ratios. What does this represent: an **element**, a **compound**, or a **mixture?** |  |
| 1. What type of mixture? |  |

***Answer the questions, then enjoy your mixture!!***

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| 1. What type of mixture is sand? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. What happens when a substance that has a density of 0.5 g/ml and is dropped in water? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Is sugar a pure substance? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. What type of mixture is vanilla ice cream?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. You add chocolate chips to the ice cream. What type of mixture is it now?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |