**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.
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| 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.
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| 1. PREDICT what will happen when our volunteer will put the oil and water into the bottle.
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| 1. Observe. Describe what you see.
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| 1. WHY do you think this happened?
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| 1. What is the density of water?
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| 1. What MUST the density of the mineral oil be? Estimate.
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| 1. We have observed differences in density, which is a physical property. What other physical properties can you observe?
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| 1. The liquids are NOT chemically combined. What type of mixture is this?
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| 1. We need another volunteer. Write the name of our volunteer.
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| 1. Our volunteer will mix two substances together. List the substances.
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| 1. Record your observations.
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| 1. What type of mixture is this?
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| 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**?
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| 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?
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***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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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