**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_**

**Types of Mixtures**

**Directions: Fill out the chart below, and then answer the questions.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Homogeneous or Heterogeneous?** | **Do particles settle?** | **Size particles?** | **Tyndall Effect?** | **Example?** |
| **Suspension** |  |  |  |  |  |
| **Colloid** |  |  |  |  |  |
| **Emulsion** |  |  |  |  |  |
| **Solution** |  |  |  |  |  |

1. **What is a mixture?**
2. **What is the difference between homogenous and heterogeneous mixtures?**
3. **What is the difference between miscible and immiscible?**
4. **What are the two parts of a solution?**
5. **In the following, Circle the solute and underline the solvent:**
   1. **Salt Water**
   2. **Sugar Water**
   3. **A solution of 20% HCl and 80% H2O**
   4. **Chocolate Milk**
   5. **A solution of 60% alcohol and 40% water**
6. **What is an alloy?**
7. **What is the difference between non-polar and polar molecules?**
8. **What does the phrase “like dissolves like” mean?**
9. **How does stirring or shaking affect dissolving?**
10. **How does temperature affect dissolving?**