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**Density Mystery**

**Data Sheet**

Directions: Add 10 drops of two water samples at a time to the straw “test tubes” to determine which sample is the densest and the least dense. Circle the color of the dense sample to help you keep track. *Hint: If the mixtures stay separated, you will know that one sample is denser than the other with the densest at the bottom. If the samples begin to mix, you will know that the densest was placed on top.*

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Test 1** | **Test 2** | **Test 3** | **Test 4** | **Test 5** | **Test 6** |
| **Drop 1st** | Green | Red | Clear | Orange | Red | Green |
| **Drop 2nd** | Orange | Orange | Orange | Clear | Clear | Clear |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Test 7** | **Test 8** | **Test 9** | **Test 10** | **Test 11** | **Test 12** |
| **Drop 1st** | Orange | Clear | Green | Orange | Clear | Red |
| **Drop 2nd** | Red | Red | Red | Green | Green | Green |

|  |  |  |
| --- | --- | --- |
|  | **Color** | **Location** |
| **Top Sample (least dense)** |  |  |
| **Next to top** |  |  |
| **Next to bottom** |  |  |
| **Bottom Sample (most dense)** |  |  |