**Identify 3 metals with Density Lab.**

**Problems:**

1. **How can you calculate the density of 3 unknown metals?**
2. **How can you use the densities, along with some known densities to identify the 1 metal?**

**Material: 3 metals, scale, over flow can, G. Cylinder.**

**Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Metal** | **Mass** | **Volume** | **Density** | **Name** |
| **1.)** |  |  |  |  |
| **2.)** |  |  |  |  |
| **3.)** |  |  |  |  |

Density Chart

|  |  |
| --- | --- |
| Substance | Density (g/cm3 or g/ml) |
| Acrylic | 1.1 – 1.2 |
| Aluminum | 2.7 – 2.9 |
| Brass | 8.3 – 8.9  |
| Copper | 9.0 – 9.5 |
| Lead | 11.0 – 11.7 |
| Oak | 0.60 – 0.90 |
| Pine | 0.35 – 0.50 |
| Polypropylene | 0.90 – 0.95  |
| PVC | 1.39 – 1.42 |
| Steel | 7.7 – 8.2 |
| Water | 1.0 |
| Zinc | 6.7 – 7.2 |

**Conclusion: ?’s from notes.**