

## Discovering Density

### Procedure

1. Get 50-60 g of silver or gold-colored metal
2. Label weighing dishes 1-5
3. Distribute metal unequally into 5 weighing dishes
4. Tare each dish & weigh samples
5. Add 13-15 mL water to 25 mL graduated cylinder
6. Read water volume to nearest 0.1 mL
7. Carefully add sample 1 to graduated cylinder. Measure final volume.
8. Add other samples to that already in graduated cylinder. Measure final volume for each sample.

### Conclusion (*Do after lab and questions are answered.*)

Write in paragraph form using complete sentences. You should have at least one sentence for each of the following points.

1. What was the purpose?
2. What were the results? In this lab, that's the density you calculated and what you determined the metal to be.
3. State some supporting evidence. For example how did the mass change as the volume changed? Be specific.
4. What are possible sources of experimental error? How could you reduce errors next time?
5. What could you do as a follow up experiment, using what you learned in this one?