**Purpose:**

Your task is to measure and compare the density of zinc and of a toonie coin to determine if the toonie is made of zinc or some other metal.

**Hypothesis:**

Based on my research, my hypothesis is that a Canadian toonie (is / is not) \_\_\_\_\_\_\_\_\_\_\_ made of mostly zinc metal.

**Procedure:**

1. Measure the mass of the zinc sample and the mass of your toonie.
   * Create a data table to record your results.
   * Make sure to take at least three measurements and average your results.

1. Measure the volume of the zinc sample and the volume of your toonie.
   * Create a data table to record your results.
   * Make sure to take at least three measurements and average your results.

1. Calculate the density of your zinc sample and the density of your toonie.
   * Show your calculations
   * Clearly highlight your results.

**Conclusion:**

1. Was your conclusion correct? Explain how your density experiment helped to prove your answer.
2. If your conclusion is that a toonie is made of zinc, is it made of pure zinc or is it made of a combination with some other metals? Explain how your research about Canadian coins and your density measurements helped you to answer this question.
3. If your conclusion is that a toonie is not made of zinc, what other metals could it be made of? Explain how your research about Canadian coins and your density measurements helped you to answer this question.