

# A few words regarding copyright...

## Hi there!

We're glad you're using this resource. Continue to check our website ([realsciencechallenge.com](https://realsciencechallenge.com)) to find more resources. And, sign up for our newsletter to receive updates on materials that will be available soon.

We spend countless hours writing, researching, editing and generating graphics/charts for each question. We want to continue creating useful content for you to use - however, we also want to ensure we are being fairly compensated for it.

Therefore, below are the terms and conditions for use of our materials.

## What is allowed:

- photocopying our content for your students to use.
- posting a copy of our content (ie. questions, rubrics) on a password protected site for your students to access and/or complete.
- copying our questions into your tests or assignments. Please give credit in this case.

## What is not allowed:

- Selling our content.
- Repackaging our content in your own materials and then selling it. NOTE: giving credit to us still does not make this okay.
- Distributing and/or posting our content online (for example, on social media or a blog).

Thank you for supporting us. And, we look forward to helping you with your teaching practice. Please feel free to reach out to us if you have any questions or suggestions.

Sincerely,

REAL Science Challenge

# BEAKER MASS ACTIVITY

## Investigation Questions

1. Do beakers of the same volume have the same mass?
2. Do beakers of increasing volume also increase in mass by the same proportions?

### Part 1

1. Obtain a triple beam balance and three 100mL beakers.
2. Using the triple beam balance, find the mass of the first 100mL beaker. Record your measurement in the table provided below.
3. Repeat steps 1-2 for the other two beakers.

Object	Mass (g)	Mass (g)	Mass (g)
100mL beaker			
250 mL beaker			
400 mL beaker			
600 mL beaker			

### Part 2

1. Obtain a triple beam balance and a 250mL, 400mL and 600mL beaker.
2. Using the triple beam balance, find the mass of the 250mL beaker. Record your measurement in the table provided above.
3. Repeat steps 1-2 for the 400mL and 600mL beaker.

## Discussion

For each Investigation Question, write a CER statement. For each statement, make to include:

1. A Claim (ie. conclusion or answer to the question).
2. Evidence (ie. specific measurements you took that support your answer)
3. Reasoning (For example, for Question 1, an explanation as to why all beakers of the same volume would or wouldn't have the same mass)