

Name: \_\_\_\_\_

Other Group  
members: \_\_\_\_\_

## Title: Greenhouse in a Beaker

**Aim:** (What do you want to test?)

**Background:**

Air in the atmosphere absorbs some of the sun's light and heats up. As humans add more greenhouse gases to the atmosphere, more light is absorbed and radiated as heat.

The main harmful greenhouse gases are carbon dioxide, water vapour, methane, nitrous oxide and ozone.

**Hypothesis:** (What do you predict will happen?)

**Variables:** Describe your variables

Independent variable (what you are changing)

Dependent variable (what you are measuring)

Controlled variables (all the things you are keeping the same)

**Materials:** (be specific)

2 beakers 600mL

1 conical flask 250mL

1 plastic tubing

2 thermometers

alfoil

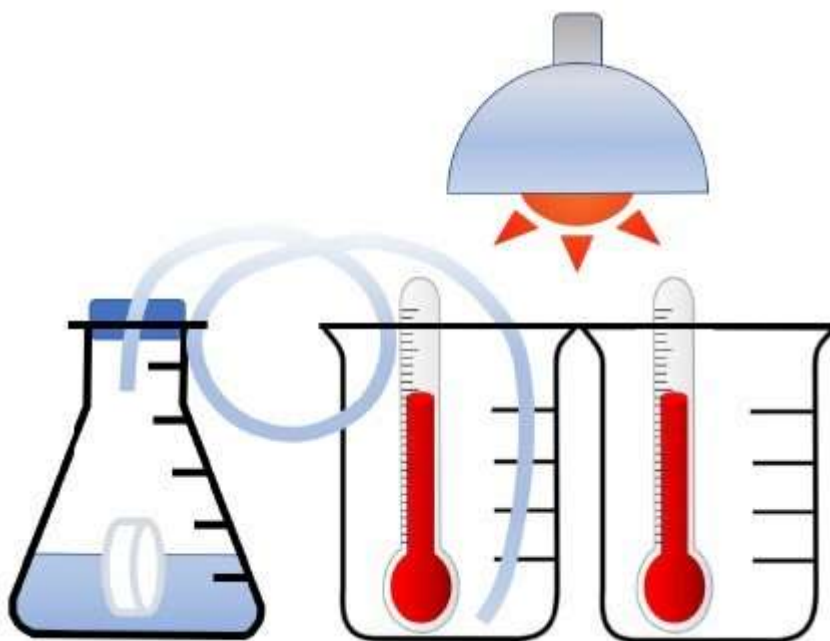
Sticky tape

Plastic bag

2 x Alka-seltzer tablet

tray

**Method:**



Tape the thermometers to the sides of the beakers so that you can read the temperature

Tape the plastic tube to the side of one beaker.

Cover the beakers with plastic  
Add ~ 150 mL water to the conical flask.

Tape the other end of the plastic tube to the side of the conical flask.

Set it all up on the tray so you can carry it out into the sun.

Once you are set up, add the alka seltzer tablets to the conical flask and immediately seal it with alfoil.

Start measuring the temperature in both beakers every 30 seconds for 10 minutes.

Record your results in a table and then make a graph of your data.

**Results:** Table (adjust)



Insert a graph or do on paper

**Conclusion:**  
**What conclusions can you draw from your results?**

**How could you improve your experiment?**

**Did the results support your hypothesis or not? Why?**