## Materials

Controlled:

- Goggles
- Thermometer
- Calcium chloride (CaCl<sub>2</sub>) (10g per trial)
- Water (H<sub>2</sub>O)
- Beaker
- Graduated cylinder
- Metric scale

## Procedure:

- 1. Use a sheet of filter paper to measure 10g of Calcium Chloride (CaCl<sub>2</sub>), pour into a beaker.
- 2. Place the thermometer into the beaker.
- 3. Measure the amount of water needed
- 4. Pour water into the beaker.
- 5. Gently swirl the beaker until the calcium chloride (CaCl<sub>2</sub>) is dissolved.
- 6. Record the highest temperature.

Unit Challenge Student Sheet	S
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Data - Record your group data on the class data table.

Trial Number	CaCl <sub>2</sub> (g)	(H <sub>2</sub> O) (g)	Highest Temp (°C)	Ratio
	10g			

On a separate sheet of paper, create a bar graph from the class data table.

Conclusion - Using the class data as evidence, **on a separate sheet of paper**, write a CER answering the question, "What ratio of chemicals will produce the most heat?"