

- Obtain **FOUR** hot bolts from your teacher and gently place them in the second cup.
- Gently swirl the cooking oil for 1 minute, then measure the temperature of the cooking oil and record the value on the table (ending temperature).
- Was your prediction correct? yes

Heated Bolts Investigation Data Table

Initial temperature of bolts added to: water cups 43°C cooking oil cups 43°C

Type of liquid:	Water		Cooking oil	
Number of bolts added:	2	4	2	4
Starting Temperature of liquid	21 °C	21 °C	22 °C	22 °C
Ending Temperature of liquid	°C	°C	°C	°C
Change in temperature (End temp. - Start temp.)	+ °C	+ °C	+ °C	+ °C

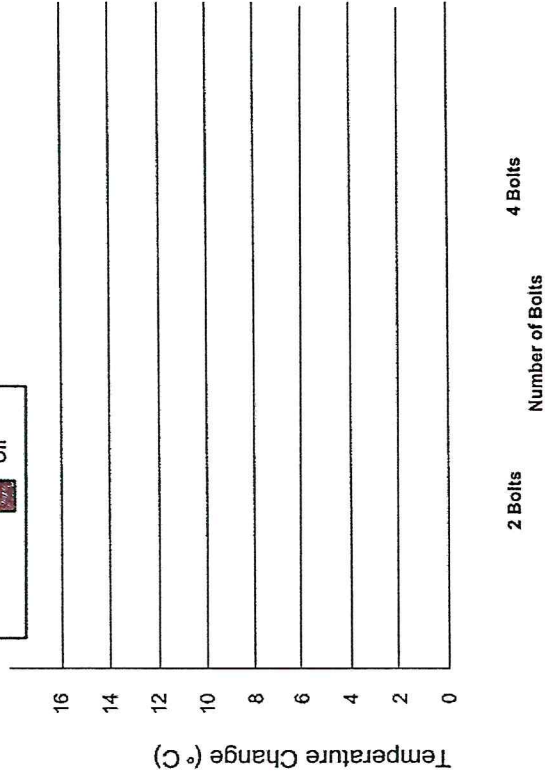
Bar Graph

Part 3 Analyze the data:

- Calculate the "Change in temperature" and write it on the table.
- Plot the "Change in temperature" data for water and cooking oil. Make sure to fill in the legend. (Hint: a double bar graph is the best choice for this data.)

Temperature Change of Liquids - Heated Bolts Investigation

Legend: water oil



- Using the graph you created, answer the following questions:

