Introduction: When we heat something up, we are transferring heat energy into it and its temper However, if we provide equal masses of different substances with the same amount of energy, wi rise by the same amount? Aim: To determine if the type of substance influences how much its temperature rises when a given required to supplied.	
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energy is supplied.	en amount of heat
Equipment: electric hot plate, 2 100mL beakers, 2 thermometers, stopwatch.	
Substances to be Tested: water, vegetable oil.	
Method: Results:	
1. Pour 35 mL of water into one beaker and 38 mL of oil into	erature (°C)
another. (38 mL of oil has the same mass as 35 mL of Time (min) water	oil
water.)	
2. Record the initial temperature of the two liquids.	
Initial Temperature of Water: °C	
Initial Temperature of Oil: °C	
3. Place the two beakers in the centre of a hotplate and 5	
record the temperature of each liquid every minute for 10	
minutes. $\frac{6}{7}$	
4. As soon as either of the liquids reaches 80°C, turn off the	
hotplate. DO NOT continue heating past 80°C.	
5. Complete the prac write-up while the equipment cools and 10	
then pack it away	
overall	
Questions: temperature	
change	
1. Draw a graph of the results with temperature on the y-axis and time on the x-axis. Label the graph a heading.	the axes and give
ŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	labelled diagram.
	9 1 3
3. Comment on the difference in the rate of change of temperature of the water and of the o	11 and on the
overall temperature change that occurred.	

Water and oil have different "specific heat capacities". It is this concept that will explain the results of your experiment today...

