


Name: _____

	Assignment: Specific Heat Online Lab
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Part 1: Calculating Mass

1. Mass Data Table

Material	Volume (L)	Volume (cm ³)	Density (g/cm ³)	Mass (g)
Water			1.0	
Olive Oil			0.9	
Iron			7.8	
Brick			1.9	

Part 2: Calculating Temperature Change

2. Temperature Data Table

Material	Initial Temperature (°C)	Final Temperature (°C)	Temperature Change (°C)
Water			
Olive Oil			
Iron			
Brick			

Part 3: Calculating Specific Heat

3. What is the amount of thermal energy that is absorbed by the water? Show your work.
4. Show the calculations for the specific heat of each of the other substances.
5. List the substances in order from smallest specific heat capacity to largest.
6. Based on their specific heat capacity, which substance will increase temperature the LEAST when heat is added to the same amount of each of the substances? Which one will increase temperature the MOST when heat is added to the same amount of each of the substances?