

REPORT FORM
Specific Heat Capacity

1. Unknown Number _____

Mass of the coffee-cups _____

Mass of the cups + water _____

Mass of the cool water _____

Temperature of water _____

2. Mass of unknown _____

Temperature of boiling water _____

3. Time vs. temperature data:

Time (sec)	Temperature (°C)	Time (sec)	Temperature (°C)	Time (sec)	Temperature (°C)
0		105		210	
15		120		225	
30		135		240	
45		150		255	
60		165		270	
75		180		285	
90		195		300	

Maximum System Temperature (T_f) _____

4. Calculate the specific heat of the unknown and identify it. (Show calculations)

$C_s =$ _____ J/g·°C Identity = _____

