

CHEMISTRY LAB DATA SHEET

NAME _____

HEAT CAPACITY OF AN UNKNOWN METAL: Thermochemistry

PARTNER(S) _____

	1	2	3	Average mass
Mass (g)				

TRIAL 1		TRIAL 2		TRIAL 3	
Volume of water in calorimeter (mL)		Volume of water in calorimeter (mL)		Volume of water in calorimeter (mL)	
Mass of water in calorimeter (g)		Mass of water in calorimeter (g)		Mass of water in calorimeter (g)	
Initial temperature of metal (°C)		Initial temperature of metal (°C)		Initial temperature of metal (°C)	
Initial temperature in calorimeter (°C)		Initial temperature in calorimeter (°C)		Initial temperature in calorimeter (°C)	
Interval	Temp	Interval	Temp	Interval	Temp
0		0		0	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
10		10		10	
11		11		11	
12		12		12	
13		13		13	
14		14		14	
15		15		15	

12. Calculations:

	TRIAL 1	TRIAL 2	TRIAL 3	Average C_p
C_p of metal				

13. Unknown metal _____

14. Percent Error Calculation (show all work)

15.