

**TABLE 1:** Student data table with an added column for reference.

Volume of hot water	Temp of water added [°C]	Temp of 500 mL cold reservoir [°C]	Temp difference between hot and cold [°C]	Final temp of reservoir [°C]	Temp increase of reservoir [°C]	<sup>a</sup> Final temp predicted by $Q = mc\Delta T$ [°C]
100 ml	21.3	3.1	18.2	6.4	3.3	6.1
200 ml	22.4	3.6	18.8	9.0	6.4	9.0
100 ml	39.6	3.0	36.6	9.2	6.2	9.1
200 ml	41.6	2.8	38.8	13.9	11.1	13.9
100 ml	62.3	3.8	58.5	13.1	9.3	13.6
200 ml	62.5	2.5	60.0	18.8	16.3	19.6
100 ml	81.8	3.1	78.7	14.8	11.7	16.2
200 ml	81.2	3.6	77.6	25.1	21.5	25.8

<sup>a</sup>This column is provided only as a point of reference to the reader; this is not something that we have students calculate.