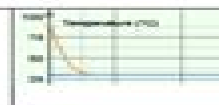


Activity A:
Heat transfer

Get the Gizmo ready:
● Click **Reset** (↺).



Question: What factors determine how heat energy transfers between objects?

1. **Predict:** In the Gizmo warm-up, you saw how 200 g of 90 °C copper transfers heat to 200 g of 30.0 °C water.

A. How do you think increasing the water's mass would affect the final temperature?

I think that will make the temperature drop

B. How do you think decreasing the copper's mass would affect the final temperature?

I think temperature will also drop

C. How do you think increasing or decreasing the copper's initial temperature would affect the final temperature? It wouldn't affect it that much

since the specific heat capacity is larger on water

2. **Collect data:** Use the Gizmo to determine the final temperature for each set-up listed below. Record your results in the tables. In the first table, you experiment with changing the water's mass. In the second table, you change the copper's mass. In the third table, you change the initial temperature of the copper. The first row of each table has been completed for you.

Copper		Water		Final Temp. (°C)
Initial Temp. (°C)	Mass (g)	Initial Temp. (°C)	Mass (g)	
90 °C	200 g	30.0 °C	200 g	34.96 °C
90 °C	200 g	30.0 °C	2,000 g	30.54
90 °C	200 g	30.0 °C	200 g	34.96 °C
90 °C	20 g	30.0 °C	200 g	30.54

Gizmo Answer Key To Calorimetry

J Dewey

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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