



Clicker Question

You drop 50.0 g of 100.0°C metal into 100.0 g of 22.0°C water. The final temperature of the water is 29.5°C. Identify the metal.

$$c(\text{water}) = 4.18 \text{ J/g } ^\circ\text{C}$$

- a) aluminum ($c=0.89 \text{ J/g}^\circ\text{C}$)
- b) iron ($c=0.45 \text{ J/g}^\circ\text{C}$)
- c) copper ($c=0.39 \text{ J/g}^\circ\text{C}$)
- d) lead ($c=0.13 \text{ J/g}^\circ\text{C}$)
- e) I do not know how to do this.