

Specific Heat Mini Quiz

1. Explain why an iron pan in the oven gets hot much faster than the aluminum foil that covers the pan.
2. A piece of unknown metal absorbed 418 J of heat as it was heated from 30.0°C to 70.0°C. If the piece of metal weighed 20.0 g, what is the specific heat of the metal? Identify the metal.
3. A sample of lead with a mass of 32.75 grams released 0.176 kJ of heat. If the initial temperature of the lead was 75.0°C, what was the final temperature reached by the sample?

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