

Recall ΔE_u lost is negative!

Specific Heat capacity KEY

1. The final equilibrium temperature is approximately **26.0 °C**
2. The final temperature is approximately **26.0 °C**.
3. The final temperature is approximately **18.7 °C**.
4. The mass of water needed is approximately **0.194 kg**.
5. The final temperature of the mixture is **38.0 °C**.
6. The final temperature of the system is approximately **27.3 °C**.
7. Approximately **0.247 kg** of snow will warm up.
8. The new temperature of the water is approximately **32.4 °C**.
9. The final temperature of the system is approximately **179.6 °C**.
10. The final equilibrium temperature is approximately **52.3 °C**.
11. The initial temperature of the copper pipe was approximately **157.7 °C**.
12. The final temperature of the mixture is approximately **12.7 °C**.
13. The final temperature of the water would be approximately **15.5 °C**.
14. The specific heat capacity of the unknown object is approximately **323 J/kg°C**.
15. The final temperature of the ornament and the slab is approximately **10.6 °C**.