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くついん	the	tallawing	ULIPSTIUNS	with	THACA	σινρη	information
JU114	UIIC	TOHOWING	questions	VVICII	uicsc	SIVCII	IIII OI III a tioii

- Specific heat capacity of ice (C_{ice}) = 2.01J/g°C
- Specific heat capacity of steam (C_{steam}) = 2.06J/g°C
- Molar heat of fusion for water $(\Delta H_f) = 6.02 \text{kJ/mol}$
- Molar heat of vaporization for water(ΔH_v) = 40.6kJ/mol
- 1. How much energy is required to heat 190.0g of water from 25.0°C to 95°.0C?
- 2. How much energy is needed to evaporate 190.0g of water at 100.0°C?
- 3. How much energy is required to heat 300.0g of water from 45.0°C to 120.0°C?
- 4. How many joules are given off when cooling water from 10.0°C to -25.0°C?
- 5. How much energy is needed to heat up 55g of ice from -15.0°C into steam at 115.0°C?
- 6. What is the final temperature when 85.0kJ is added to 100.0g of water at -10.0°C?