



4. A goldsmith heats 40 g of gold to cast some jewelry. Once it reaches its melting point, 2.5 kJ of energy is required to melt the gold. What is the specific latent heat of fusion of gold?

5. How much energy is needed to:  
a) heat 1 kg of water from 20°C to 100°C

b) vaporize 1kg water into steam at a constant temperature of 100°C

6. How could you do an experiment to measure the latent heat of fusion of water?