

Heat



Name Class Date A solid sample was heated and its temperature How are the boiling point of water and the increased but it did not melt. Which statement best melting point of ice affected by a decrease describes the changes in the average kinetic and in pressure? potential energies of the molecules of the sample? he boiling point of water increases, and A Potential energy decreased and kinetic energy the melting point of ice increases The boiling point of water increases, Potential energy increased and kinetic energy remained the same. the melting point of ice decreases The boiling point of water decreases, and Kinetic energy decreased and potential energy the melting point of ice increases remained the same. The boiling point of water decreases Kinetic energy increased and potential energy emained the sam the melting point of ice In a diesel engine, the piston compresses gases A commercial freezer vaporizes ammonia in 3 in a cylinder. Why does the temperature of its cooling coils to remove heat from an ice the gases rise during this process? machine. How much ammonia at -33°C 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 initially at -10°C. Which substance has A the specific heat of the cooler region is the largest change in temperature? greater than the specific heat of the warmer A aluminum the temperature of the cooler region is near B ice work is done to produce the flow iron the cooler region is liquid and the warmer alcohol region is sol 9 leat will always flow from object What is the minimum heat required to change 5.0 kilograms of copper at 1083°C to object B if object B has a lower from a solid to a liquid? A mass A 0.20 kJ **B** total energy **B** 0.39 kJ **C** temperature C 41 kJ D specific heat D 1.0 x 10³ kJ



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