Thermal Energy, Heat, and Temperature

Guiding Questions

DIrections: Answer each of the following two questions. Each answer should be 4-6 sentences long for EACH question, with details from the textbook to back up your response.

What happens to a substance when it is heated? When a substance is heated energy is added and the particles will become more active. If the substance has enough energy it can control the bonding forces. Then hold the particles together and when doing so it can experience a change in state. That is what happens to a substance when it is heated.

What is the difference between thermal energy and temperature? Temperature is the average energy of the matter. Thermal energy measures the total energy of moving particles. Thermal energy is the total kinetic energy of the substance. That is the difference between thermal energy and temperature.