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Chapter 6

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| **Across****6.** Release of energy that was stored in chemical bonds **7.** A measure of the disorder or randomness of a system **9.** Heat per unit mass required to melt a substance at its melting point**11.** SI Unit of energy and energy transfer**14.** Heat per unit mass required to vaporize a substance at is normal boiling point **15.** Internal heat plus the product of the pressureand volume **16.** The principal that the change of energy of a thermodynamic system is equal to heat transferred minus the work done**17.** Energy associated with motion. **18.** No cyclic process is possible in which heat is absorbed from a reservoir at a single temperature and converted completely to mechanical work.**19.** Sum of all possible forms of energy of all ions atoms and molecules in a system **20.** Remainder of universe | **Down****1.** Device measuring heat flow**2.** Energy absorbed into the reactant substance **3.** Ability to do work.**4.** Energy also associated with the position of an object relative to a force upon it**5.** Energy can never be created or destroyed**8.** Total amount of heat liberated or absorbed between short end of reaction all products are at original temperature **10.** Portion of universe or sample of matter being studied **12.** Able to occur without any continuing outside help**13.** Heat required to cause a unit to rise in the temperature of a unit or mass |