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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 |