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ACROSS

- 2 as temperature increases, entropy_____
- 4 coenzyme
- 6 the coupled reaction depends on ATP and an_____
- 8 example of allosteric effector
- 10 The synthesis of sucrose from glucose and fructose is_____
- 12 usable free energy for work
- 15 total energy in a molecule typically released as heat
- 16 direction of diffusion is explained by the_____
- 17 percent loss of energy between producer and primary consumer levels
- 19 enzymes can be_____
- 23 changing the shape of an enzyme during catalysis is assumed by the _____

- 24 energy can be changed from one form to another, but cannot be created or destroyed
- 25 product of catalase reaction
- 26 as the concentration of a competitive inhibitor increases, reaction rate will_____
- 27 feedback inhibition leads to _____binding of the substrate to the active site
- 29 AZT is a_____

DOWN

- 1 fate of the universe
- 2 as water melts, entropy_____
- 3 all energy transformations (system, plus surroundings) tend toward increasing randomness
- 5 enzyme without a cofactor

- 7 release of energy in a chemical reaction
- 9 energy required to reach transition state
- 11 biological systems are thermodynamically_____
- 13 catalysts _____activation energy
- 14 $\Delta G = -$ means a reaction is_____
- 18 product of an enzyme catalyzed reaction in metabolism
- 20 ATP has _____stored energy than ADP
- 21 hydrogen peroxide molecules are kept from reacting because of_____
- 22 vitamin
- 28 energy currency of the cell

Solution:

