| **Science Essential Academic High School Vocabulary** | | |
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| **Biology** allele analogous ATP behavior (innate, learned) biogeochemical cycle biomolecules carrying capacity cellular respiration DNA (replication, sequence, molecule) enzyme evolution genes (encoding, expression, mutation) genotype heterozygous homologous homozygous levels of organization (cell, tissue, organs,    organ system, organism) limiting factors multicellular mutation nucleotide pedigree permeable phenotype phospholipids population density recessive trait RNA sex-linked trait stimulus symbiosis (mutualism, commensalism) transport (active, passive) tropism | **Chemistry** atom (electron, proton, neutron) atomic mass atomic number atomic theory Avogadro’s Number balanced equations (mass conservation) bonding (ionic, polar covalent, nonpolar) catalyst chemical equations chemical formulas electron configuration electronegativity elements endothermic entropy equilibrium exothermic gas laws intermolecular forces inversely proportional ion (cation, anion) Kinetic Theory molar mass molarity mole neutralization oxidation periodic table (families, periods) proportional (directly, indirectly) pure substance reactant reduction solubility stoichiometry valence | **Physics**  acceleration  buoyancy electromagnetic fluid  force gas laws gravitation inversely proportional kinetic energy magnitude momentum Ohm’s law (voltage, current, resistance) potential energy power proportional scalar specific heat thermodynamics vectors velocity viscosity work |

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| ***Physical Science*** atom (electron, proton, neutron) atomic mass atomic number catalyst chemical formulas compound conduction conservation (mass, energy,      momentum) convection currents dilution elements equilibrium fossil record gas laws geologic time scale heterogeneous homogeneous ion isotopes kinetic energy mixture (heterogeneous, homogeneous,    suspension, colloid) nuclear fusion periodic table (families, periods) potential energy pure substance radiation solute solvent star life cycle tectonic cycle thermal energy velocity waves (electromagnetic, seismic, sound) |  |  |

Source: <http://ok.gov/sde/building-academic-vocabulary#English> aligning with CCSS