**7th Grade Life Science Vocabulary**

**Chapter 1: What is Science**

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| Lesson 1: Science and the Natural World pp. 6-13 | Science, observing, inferring, predicting, classifying, evaluating, making models, variable, independent variable, dependent variable |
| Lesson 2: Thinking Like a Scientist pp. 14-21 | Skepticism, ethics, personal bias, cultural bias, experimental bias, objective, subjective, deductive reasoning, inductive reasoning |
| Lesson 3: Measurement: A Common Language pp. 22-31 | metric system, International System of Units (SI), mass, weight, volume, meniscus, density |
| Lesson 4: Mathematics and Sciencepp. 32-39 | Estimate, accuracy, precision, significant figures, percent error, mean, median, mode, anomalous data |
| Lesson 5: Graphs in Science pp. 40-45 | Graph, linear, graph, non-linear graph |
| Lesson 6: Scientific Inquiry pp. 46-55 | Scientific inquiry, hypothesis, controlled experiment, data, repeated trials, replication |

**Chapter 2: The World of Science**

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| Lesson 1: Scientific Investigationpp. 64-67 | Scientific explanation, empirical evidence, opinion |
| Lesson 2: Scientist and Society pp. 68-71 | controversy |
| Lesson 3: How Science Changes pp. 72-75 | Scientific theory, scientific law |
| Lesson 4: Models as Tools in Sciencepp. 84-87 | Model, system, input, process, output, feedback |

**Chapter 8:Diversity of Life**

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| Biotic, abiotic, Domains, kingdoms, Archaea, Bacteria, Eukaryote, hierarchy, binomial nomenclature, prokaryote, autotroph, heterotroph, classification, taxonomy, genus, species,, binomial nomenclature, |

**Chapter 3 : Cells and Life Processes**

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| atoms , cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, vacuoles, , molecules, cells, tissues, organs, organ system, organism |

**Chapter 3 and Chapter 13**

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| diffusion, transport, photosynthesis, cellular respiration, chlorophyll, carbon dioxide, mitosis, glucose, oxygen, asexual reproduction, homeostasis |

**Chapter 4 Part 1**

Digestive system, respiratory system, circulatory system, reproductive system, excretory system, immune system, nervous system, musculoskeletal system, integumentary system, endocrine system

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| **Chapter 4/5** |
| Joints, ligaments, marrow, cartilage, osteoporosis, tendon, cardiac muscle, epidermis, melanin, calorie, esophagus, ventricle, artery, hemoglobin, trachea, cilia, diaphragm, kidney |

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| **Chapter 6/7** |
| Neuron, central nervous system, peripheral nervous system, hypothalamus, bacteria, virus, fungus, parasite, infectious agent, pathogen, antibiotic, vaccine |

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| **Frog Dissection Vocabulary** |
| Nictitating membrane, tympanic membrane, vomerine teeth, Eustachian tubes, glottis, fat bodies (related to frogs!) |

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| **7th Genetics #1 Vocabulary** |
| nitrogen bases, chromosomes, heredity, genetics, genes, traits, alleles, dominant alleles, recessive alleles, pedigree |

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| **7th Genetics #2 Vocabulary** |
| Meiosis, genotype, phenotype, biotechnology, Punnett squares, homozygous, heterozygous, probability, clone, genetic engineering, gene therapy, hybridization |

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| **7th Evolution Vocabulary** |
| scientific theory of evolution, evolution, branching tree diagram, convergent evolutions, fossil evidence, homologous structures, (genetic) variation, natural selection, biodiversity, extinction, adaptation |

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| **7th Environment Vocabulary #1** |
| Biotic factor, producers, consumers, decomposers, food web, mutualism, predation, parasitism, competition, commensalism, symbiosis, niche |

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| **7th Environment/ Vocabulary #2** |
| heterotrophs, autotrophs, adaptation, limiting factor, parasitism, predation, carrying capacity, population density, carbon cycle, conservation of mass, conservation of energy, nitrogen fixation |