

# 7<sup>th</sup> Grade Science

## Individual Syllabus for Mr. Dzedzic

### Teacher Information:

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### 7<sup>th</sup> Grade/Science/Life Science:

#### Characteristics of Living Things

- List the characteristics of all living organisms. (Cellular Organization, Contain Compounds, Use Energy, Respond to Surroundings, Grow & Develop, Reproduce)
- Give an example of an organism from each of the six kingdoms (Archaea, Bacteria, Protista, Fungi, Plant, and Animal)
- Order the levels of classification from most broad to most specific (Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species)

#### Cells

- Explain the differences between plant and animal cells
- List at least 5 cell organelles/structures
- Describe the following cell processes; Photosynthesis, Respiration, & Mitosis

#### Bacteria & Viruses

- List differences between bacteria and viruses
- Describe prevention and/or treatment options for bacterial or viral infections

#### Genetics & Heredity

- Discuss how characteristics/traits (i.e. widow's peak, colorblindness, genetic disorders) can be passed from generation to generation
- Give examples of dominant and recessive genes.
- Complete a Punnett square, including genotype and phenotype

#### Plant Kingdom

- Describe and label plant structures and functions

#### Animal Kingdom

- Identify a species associated with each of the major animal groups (Sponge, Cnidaria, Echinoderm, Roundworm, Flatworm, Mollusk, Segmented worm, Arthropod, Bird, Reptile, Mammal, Amphibian, Etc.)

**Human Body**

- List human body systems (Skeletal, Muscular, Skin, Digestive, Cardiovascular, Respiratory, Excretory, Nervous, Endocrine, Reproductive, & Lymphatic)
- Locate an organ/structure and describe its function within each system

**Common Assessments:**

- ✓ Unit Tests
- ✓ Chapter Quizzes