

Seventh Grade Science Learning Targets 2015-2016 REGIONAL SCHOOL UNIT #22

RSU #22 is committed to the optimal learning of all students. As RSU #22 continues to move towards meeting 2018 graduation expectations, we have elected to look at proficiency learning targets K-12. Rather than only the high school being responsible to report student proficiency, we have created some initial targets at each grade level. We know that some children may be able to meet standards beyond the targets listed at the grade level. We also know that some students will need more time to meet the expectations.

Standards Scored on the Report Card:

Life Science: Biodiversity & Evolution

- Understands how organisms are categorized into groups based on structural characteristics, ways in which they obtain food, and methods of reproduction.
- Understands the physical and behavioral (eg. guarding the nest, communication, instincts, burrowing, hibernating, migrating) characteristics of plants and animals that help them live in different environments
- Understands how variations in the behavior and traits of an offspring may permit some of them to survive a changing environment

Life Science: Cells & Organisms

- Understands the basic characteristics of living and non- living things (e.g. growing, responding to environment, changing, reproducing)
- Understands organisms have structures that have different functions to support survival (senses to detect food, legs to get it, arms to carry it away, and a mouth to eat it, etc.)
- Understands the functions of organelles in plant and animal cells (mitochondria, cell membrane, nucleus, etc.)
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Life Science: Environmental Science

- Understand the growth and survival of organisms in any particular environment depends on the physical conditions of the environment
- Understand how energy flows through the terrestrial and aquatic ecosystems from producers to consumers to decomposers
- Understand ways in which organisms interact symbiotically within an ecosystem

Life Science: Heredity & Reproduction

- Understands how heredity and experience shape physical traits and behaviors (nature vs. nurture)

- Understands the effects of sexual and asexual reproduction on the traits of the offspring
- Understand patterns of inheritance in determining genotype and phenotype

Life Science: Human Body

- Understand the body can be divided into systems that perform specific functions
- Understands the purposes of 6 human body systems: respiratory, circulatory, digestive, muscular, skeletal, nervous
- Understand the basic structure and functions of the major organs of human body systems: digestive, respiratory, circulatory, nervous, muscular, skeletal
- Understands how pairs of organs and body systems interact to keep a human alive (e.g., heart and lungs; muscles and bones)