



# School District of Pickens County

*Building success beyond the classroom*

SC Standards: Science

Seventh Grade

## Unit: Scientific Inquiry

- Science-7-1.1 Use appropriate tools and instruments (including a microscope) safely and accurately when conducting a controlled scientific investigation.
- Science-7-1.2 Generate questions that can be answered through scientific investigation.
- Science-7-1.3 Explain the reasons for testing one independent variable at a time in a controlled scientific investigation.
- Science-7-1.4 Explain the importance that repeated trials and a well-chosen sample size have with regard to the validity of a controlled scientific investigation.
- Science-7-1.5 Explain the relationships between independent and dependent variables in a controlled scientific investigation through the use of appropriate graphs, tables, and charts.
- Science-7-1.6 Critique a conclusion drawn from a scientific investigation.
- Science-7-1.7 Use appropriate safety procedures when conducting investigations.

## Unit: Cells and Heredity

- Science-7-2.1 Summarize the structures and functions of the major components of plant and animal cells (including the cell wall, the cell membrane, the nucleus, chloroplasts, mitochondria, and vacuoles).
- Science-7-2.2 Compare the major components of plant and animal cells.
- Science-7-2.3 Compare the body shapes of bacteria (spiral, coccus, and bacillus) and the body structures that protists (euglena, paramecium, amoeba) use for food gathering and locomotion.
- Science-7-2.4 Explain how cellular processes (including respiration, photosynthesis in plants, mitosis, and waste elimination) are essential to the survival of the organism.
- Science-7-2.5 Summarize how genetic information is passed from parent to offspring by using the terms genes, chromosomes, inherited traits, genotype, phenotype, dominant traits, and recessive traits.
- Science-7-2.6 Use Punnett squares to predict inherited monohybrid traits.
- Science-7-2.7 Distinguish between inherited traits and those acquired from environmental factors.

## Unit: Human Body Systems: Cardiovascular

- Science-7-3.1 Summarize the levels of structural organization within the human body (including cells, tissues, organs, and systems).
- Science-7-3.2 Recall the major organs of the human body and their function within their particular body system.
- Science-7-3.3 Summarize the relationships of the major body systems (including the circulatory, respiratory, digestive, excretory, nervous, muscular, and skeletal systems).



