

Science Curriculum

Morris County USD #417

Grade 7 – Life Science

**Understand: “understand” does not mandate “belief.” While students may be required to understand some concepts that researchers use to conduct research and solve practical problems, they may accept or reject the scientific concepts presented. This applies particularly where students’ and/or parents’ beliefs may be at odds with current scientific theories or concepts. (KS Science Standards, February 14, 2001, p. 76)*

Indicator	Description	Date(s)			
8KS1.1.1	Identify questions that can be answered through an investigation.				
8KS1.1.2	Design/conduct a scientific investigation.				
8KS1.1.3	Use appropriate tools.				
8KS1.1.4	Identify the relationship between evidence and conclusion(s).				
8KS1.1.5	Apply mathematical reasoning to investigation.				
8KS1.1.6	Communicate scientific procedures/explanations.				
8KS1.2.1	Differentiate between a qualitative and a quantitative investigation.				
8KS1.2.2	Adapt the process to guide the investigation.				
8KS1.3.1	Generate further questions for investigation.				
8KS1.3.2	Determine evidence of support/contradicts.				
8KS1.3.3	Identify faulty reasoning/conclusions to support data.				
8KS3.1.1	Structure of cells, organs, tissues, organ systems, etc.				
8KS3.1.2	Single-cell vs. multi-cell organisms.				
8KS3.1.3	Cell damage caused by disease, heredity, aging, etc.				
8KS3.2.1	Reproduction is essential to species continuation.				
8KS3.2.2	Reproduction in plants and animals (asexual vs. sexual).				
8KS3.2.3	Heredity and interactions with the environment.				
8KS3.2.4	Heredity information (genes, chromosomes).				
8KS3.3.1	Investigate change in environmental conditions on behavior.				
8KS3.3.2	Response to internal or environmental stimuli.				
8KS3.3.3	How organisms regulate internal conditions to survive.				
8KS3.4.1	Composition of an ecosystem.				
8KS3.4.2	Classify organisms and their function(s).				
8KS3.4.3	Food Web. Energy flow from sun to producers to organisms.				
8KS3.4.4	Limiting factors of biotic/abiotic resources.				
8KS3.5.1	Internal structures, developmental characteristics, and chemical processes of organisms.				
8KS3.5.2	Organism adaptations with structure, function, or behavior.				