

# Science Curriculum

## Morris County USD #417

### Grade 6 – Earth 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.				
8KS4.1.1	Predict patterns from data collected.				
8KS4.1.2	Identify properties of earth, ocean, and atmosphere.				
8KS4.1.3	Model Earth’s cycles.				
8KS4.1.4	Model Earth’s plate movements.				
8KS4.1.5	Understand the effects of oceans on climate.				
8KS4.2.1	Describe Earth’s constructive/destructive forces.				
8KS4.2.2	Model geologic time to scale.				
8KS4.2.3	Recorded evidence of Earth’s history.				
8KS4.2.4	Past/present arrangement of continents throughout history.				
8KS4.3.1	Compare/contrast the characteristics of the planets.				
8KS4.3.2	Solar system models.				
8KS4.3.3	Asteroids and comets.				
8KS4.3.4	Identify the sun as a star.				
8KS4.3.5	Cultural/scientific influences on astronomy.				
8KS4.4.1	Space/time relationships (day, month, year, seasons).				
8KS4.4.2	Moon phases and eclipses.				
8KS4.4.3	Principles of force/motion and the solar system.				
8KS4.4.4	Solar energy effect/heat energy absorbed at Earth’s surface.				