

FSSD Syllabus for Science PGM

Poplar Grove Middle School

6th Grade

Instructional pacing guide for Science is available online at the FSSD website, which conveys detailed information by quarter. Please access these instructional resources at fssd.org/teacher-information/curriculum/

1st Quarter

Standards/Objectives:

{https://www.tn.gov/assets/entities/education/attachments/std_sci_gr_6.pdf}

GLE 0607.10.1	Energy Transformation	Compare and contrast the three forms of potential energy.
GLE 0607.10.2	Energy Transformation	Analyze various types of energy transformations.
GLE 0607.10.3	Energy Transformation	Explain the principles underlying the Law of Conservation of Energy.

Topics covered:

1. Science Processes (embedded standards)
 - Scientific Method
 - Engineering Design
 - Measurement
2. Energy Transformation
 - Forms of Energy
 - Law of Conservation of Energy
 - Energy Transfer

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments
- 3) Additional reading and/or projects may be assigned for honors students

Field trips: Nature's Classroom

2nd Quarter

Standards/Objectives:

{https://www.tn.gov/assets/entities/education/attachments/std_sci_gr_6.pdf}

GLE 0607.10.1	Energy Transformation	Compare and contrast the three forms of potential energy.
GLE 0607.10.2	Energy Transformation	Analyze various types of energy transformations.
GLE 0607.10.3	Energy Transformation	Explain the principles underlying the Law of Conservation of Energy.
GLE 0607.12.1	Electricity	Describe how simple circuits are associated with the transfer of electrical energy.
GLE 0607.12.2	Electricity	Explain how simple electrical circuits can be used to determine which materials conduct electricity.
GLE 0607.2.1	Interactions	Examine the roles of consumers, producers, and decomposers in a biological community.
GLE 0607.2.2	Interactions	Describe how matter and energy are transferred through an ecosystem.
GLE 0607.2.3	Interactions	Draw conclusions from data about interactions between the biotic and abiotic elements of a particular environment.
GLE 0607.2.4	Interactions	Analyze the environments and the interdependence among organisms found in the world's major biomes.

Topics covered:

1. Energy Transformations
 - Forms of Energy
 - Law of Conservation of Energy
 - Energy Transfer
2. Electricity
 - Simple Circuits
 - Conductors and Insulators
 - Energy Transfer
3. Interactions
 - Energy in the food chain
 - Biomes

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments
- 3) Additional reading and/or projects may be assigned for honors students

Field trips: To Be Determined (TBD)

3rd Quarter

Standards/Objectives:

{https://www.tn.gov/assets/entities/education/attachments/std_sci_gr_6.pdf}

GLE 0607.8.1	Weather and Climate	Design and conduct an investigation to determine how the sun drives atmospheric convection.
GLE 0607.8.2	Weather and Climate	Describe how the sun's energy produces the wind.
GLE 0607.8.3	Weather and Climate	Investigate the relationship between currents and oceanic temperature differences.
GLE 0607.8.4	Weather and Climate	Analyze meteorological data to predict weather conditions.

Topics covered:

Weather and Climate

- Layers of the Atmosphere
- Convection currents in the atmosphere
- Currents and Oceanic Temperature
- Predicting Weather using weather tools and maps

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments
- 3) Additional reading and/or projects may be assigned for honors students

Field trips: TBD

4th Quarter

Standards/Objectives:

{https://www.tn.gov/assets/entities/education/attachments/std_sci_gr_6.pdf}

GLE 0607.6.3	Earth In Space	Explain how the positional relationships among the earth, moon, and sun control the length of the day, lunar cycle, and year.
GLE 0607.6.4	Earth In Space	Describe the different stages in the lunar cycle.
GLE 0607.6.5	Earth In Space	Produce a model to demonstrate how the moon produces tides.
GLE 0607.6.6	Earth In Space	Illustrate the relationship between the seasons and the earth-sun system.
GLE 0607.6.7	Earth In Space	Describe the causes of lunar and solar eclipses.
GLE 0607.6.1	Outer Space	Analyze information about the major components of the universe.
GLE 0607.6.2	Outer Space	Describe the relative distance of objects in the solar system from earth.

Topics covered:

1. Earth in Space
 - Seasons
 - Moon Phases
 - Tides
 - Solar and Lunar Eclipses

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments
- 3) Additional reading and/or projects may be assigned for honors students

Field trips: TBD

*For students who have IEPs, please refer to their specific goals.

Procedures for Parental Access for Instructional Materials:

1) Many instructional materials can be accessed digitally via the FSSD website (fssd.org) using your student's unique username and password.

a. [Student Resources](#): FSSD website > Parents & Students > Parent Information > Online Resources > Student

b. [Parent Resources](#): FSSD website > Parents & Students > Parent Information > Online Resources > Parent

2) If additional information is needed regarding instructional materials, a written request may be submitted to your child's teacher. Instructional material review is included in [Board Policy 4.400](#).