

SCIENCE

M104000 Earth Science

Grade 6

(Required - Full Year)

In this Earth Science course, also known as Geology, science and engineering practices are used to explore the world and our solar system's structures and processes through a variety of hands-on investigations. The course will examine the core ideas in Geology, Meteorology (weather and climate), Solar System Astronomy, movement of Earth's crust, human involvement in the environment, cycling patterns of water, energy and minerals, and the contribution to world by Minnesota American Indian Tribes and other cultures and relate these core ideas to student life of today. Students will be asked to complete a series of units that focus on the unit's core ideas, practices that engineers and scientists do, and cross cutting concepts that drive higher level thinking. The course will examine natural processes through the use of student built models, student driven experimentation, and student led discussions that focus on natural events impacting our lives. The course is fully aligned to the 2019 Minnesota State Science Standards.

M102000 Life Science

Grade 7

(Required - Full Year)

Life Science is a basic biology course where students will learn about living things. Students will complete a series of units that focus on the unit's core ideas, practices that engineers and scientists do, and cross cutting concepts that drive higher level thinking. The hands-on curriculum will focus on: the practices of science and engineering, the importance of cells as the basic unit of life, the structure of organisms and maintaining a balanced

body, reproduction, heredity and growth, how matter and energy flow within and between organisms, the history of life through Earth's history and contributions to the scientific world by Minnesota American Indian Tribes and other cultures. The course will examine these natural processes through the investigation of real world phenomena, the use of student built models, student driven experimentation, and student led discussions. The course is fully aligned to the 2019 Minnesota State Science Standards.

M105000 Physical Science

Grade 8

(Full Year)

Physical Science introduces students to the sciences of chemistry and physics. The course is designed to help students understand basic chemistry and physics by exploring natural phenomena in a laboratory situation. Students will complete a series of units that focus on the unit's core ideas, practices that engineers and scientists do, and cross cutting concepts that drive higher level thinking. The course will examine the structure of matter and how it interacts with each other through various chemical reactions, energy and energy transfer, the forces found in the natural world, how waves can be used to transfer information and contributions to the scientific world by Minnesota American Indian Tribes and other cultures. The course will examine these natural processes through the investigation of real world phenomena, the use of student built models, student driven experimentation, and student led discussions. The course is fully aligned to the 2019 Minnesota State Science Standards.