



**Sir Manasseh Meyer
International School**

A VISION FOR EXCELLENCE

GRADE 8 CURRICULUM

- ENGLISH
- MATHEMATICS
- SCIENCE
- HISTORY
- PSHE
- ELECTIVES



GRADE 8

ENGLISH

Students will read and examine works of literature written by American authors between the Colonial period and the twentieth century. The authors and their works were selected for having artistic merit and lasting value within the established body of literature representing the time frame. In subject, the works represent the sweep of America's settlement and growth, the themes of clashing cultures, slavery and civil rights.

MATHEMATICS - GEOMETRY

- Points and Lines
- The language and logic of Geometry
- Angles and lines
- Congruence transformations
- Proofs using congruence
- Polygons and symmetry
- Applications of Congruent triangles
- Length and area
- Three dimensional figures
- Formulas for volume
- Indirect and Coordinate proofs
- Similarity
- Similar Triangles and Trigonometry

SCIENCE

ELECTRONICS: Students learn fundamental electrical circuitry and basic electronic principles. They make simple and complex circuits, quantify electrical interactions and properties (current, voltage, resistance) using a digital multimeter and discover how different components affect circuits (resistors, diodes, LED's, capacitors, transistors). They make and read schematics and construct solid- state devices.

PLANETARY SCIENCE: Students study Astronomy as the study of everything we can observe and imagine beyond Earth- the Moon, Sun, The Solar System with all its planets and lesser objects, the Milky Way, and the vastness of the cosmos.

HUMAN BRAIN AND SENSES: Students investigate how the brain and senses acquire, interpret, and respond to information. An emphasis on vision and touch leads to investigations of the structure and function of the sensory organs and the brain itself. Images (MRI and EEG) are used to reveal brain anatomy and activity. Students also explore learning, memory, and sensory dysfunction.

HISTORY

CORE CURRICULUM: HISTORY OF THE UNITED STATES: Students will study the political, economic, social and cultural development of the United States from its earliest settlements through modern times.

PSHE (Personal Social, Health Education)

PSHE is a developmental program of learning through which children of Grades 1-8 acquire the knowledge, skills and understanding to manage their lives now and in future. PSHE builds on the skills for students to develop effective relationships, assume greater responsibility and manage personal safety. It will introduce the students to a wider world and enable them to make an active contribution to their communities.

ELECTIVES

Guided Reading: The teachers will use specific teaching strategies that will help students develop a better understanding of text, especially novels. These skills are important for the mastery of comprehending. The guided reading groups will discuss and work with contemporary and classic novels to develop those skills.

International Studies: The International Studies elective will focus on “Our World”. The focus is on being a responsible global citizen who takes care of our planet for the present and future generations. Grades 6-8 will focus on Renewable Energy. Students will learn about the current advances in technology in developing and harnessing renewable energy and ways to practice global stewardship.

World Religions: The purpose of World Religions at SMMIS is to provide students with opportunities to learn about and learn from the world’s major religions: Hinduism, Buddhism, Christianity, Islam and Sikhism. Various aspects of these religions are discussed, with knowledge and understanding being built up over the years.

Grades 6-8 will focus on – Authority, Purpose and Meaning, Rights and Responsibilities, Ethics and Relationships, Religion and Science and Global Issues relating to religion.