



**Sir Manasseh Meyer  
International School**

A VISION FOR EXCELLENCE

## **GRADE 7 CURRICULUM**

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

## GRADE 7

### ENGLISH

Students will read and examine works of literature written by English and European authors between the late Renaissance and the modern era (16<sup>th</sup> to 20<sup>th</sup> centuries). Many of these works reflect major social, political, and literary upheavals. A major area of study will be a six-week unit on World War II and the Holocaust. Students will read additional books that relate to the time period being studied in history.

### MATHEMATICS

- Using algebra to describe and explain
- Linear equations and inequalities
- Division and proportions in algebra
- Shapes and lines
- Using algebra to describe patterns of change
- Power and roots
- Quadratic equations and functions; Linear systems
- Polynomials

### SCIENCE

**Force and Motion:** Use tools (pushers, spring scales, and multimedia simulations) to apply force and to investigate force and motion. Investigate the fundamental force of gravity and electromagnets, investigate linear motion - including position and several aspects in change of position (displacement, distance, speed, velocity and acceleration). Students will relate between mass and the force of gravity. Identify that gravity is a universal force. Explain and apply the interplay of force and time (impulse) and momentum in crashes.

**Chemical Interactions:** Students conduct experiments to observe the macroscopic transformations of matter – phase change, dissolution, reaction – and apply kinetic particle theory to explain those transformations at the microscopic level. In the process, students learn useful conventions for thinking about and communicating chemical concepts: all common matter on Earth is composed of 90 naturally occurring fundamental substances called elements; characteristics of elements, atoms and substances.

**Populations and Ecosystem:** Students learn that every organism has a role to play in its ecosystem and has structures and behaviors that allow it to survive. Students raise populations of organisms to discover population dynamics and interactions over a range of conditions. They learn that food is the source of energy used by all life forms in all ecosystems to conduct life processes. Reproduction, including limiting factors, heredity and natural selection are explored as ways to understand both the similarity and the variation within and between species.

### HISTORY

Students will complete their three-year study of Western Civilization by focusing on the Age of Revolution. This will include the Glorious Revolution, The Industrial Revolution, The Russian Revolution and the cataclysmic upheavals of the twentieth century.

## 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.