

SCIENCE

The science program at SVA is divided into discrete and integrated science courses designed to develop and understanding and appreciation of science and its implications. Students in the science programs will develop critical thinking, reasoning, problem solving and deeper learning grounded in each specific discipline. Additional concepts may also be identified and developed to meet local circumstances and curriculum requirements. The MYP (Middle Years Programme) promotes inquiry in sciences by developing conceptual understanding within global contexts. Students will explore key and related concepts through the MYP Global Contexts including:

- **Identities and relationship**
- **Orientation in space and time**
- **Personal and cultural expression**
- **Scientific and technical innovation**
- **Globalization and sustainability**
- **Fairness and development**

GRADE 6 (MYP YEAR 1):

- Trimester 1: Brainology - *How the brain works; Energy - Transfers and Changes in Energy*
- Trimester 2: Life Science - *From Molecules to Organisms, Inheritance and Variation of Traits*
- Trimester 3: Earth Science - *Earth's Systems, Earth and Human Activity*

GRADE 7 (MYP YEAR 2):

- Trimester 1: Ecology: *How do our actions impact the world around us?*
- Trimester 2: Cells & Genetics: *Change in form and structure may change our perspective of human nature and dignity.*
- Trimester 3: Physiology & Anatomy: *How does access to technology and other resources influence people's ability to achieve and maintain good health?*
**Includes Family Life*

GRADE 8 (MYP YEAR 3):

- Trimester 1: *Chemistry- Human impact on the environment including consumption, conservation, natural resources, and public goods.*
- Trimester 2: *Physics- Technical innovation, the interaction of parts and models leading to changes in global relationships and modernization.*
- Trimester 3: *Light and Waves- Developing the process of applying theory to data and observations in order to improve, progress, or further scientific understanding.*