



## **Year 9 Course Overview Science 2025-26**

Welcome to Year 9 Science! It is a multi-disciplinary investigation of energy and its impacts on human societies

The Middle Years Programme (MYP) at CIS spans the concepts of biology, chemistry, and physics with a strong commitment to practical laboratory work. We will also study the impact of science on other aspects of society, such as the environment, morality, politics, government, the arts, etc., on both the local and global scales.

### **Programme Aims**

Learning about Science in the MYP is an active process, integrating both 'hands-on' and 'mind-on' experiences. Students actively participate in scientific investigations, developing experimental planning, analysis and technical skills. Students are expected to view learning as a personal activity, namely something that they do, not something done to them. Thus, there is less emphasis on the presentation of information by a teacher and more on guiding students via investigations and other suitable inquiry-based activities.

Due to situations beyond our control, some of the coursework this year will be conducted using online strategies. This is not the norm, but students should use this as an opportunity that allows them to develop and hone skills in this area. It is also important to remember that a hybrid (mixed) or blended mode of presentation will continue throughout the year.

### **Curriculum for the Year**

The year-long overarching study around the central theme of energy will be introduced to students, and it will be examined from multiple disciplinary perspectives.

We will examine such issues as:

- Are some energy transformations more useful or less harmful than others?
- How do plants interact with their environment to convert energy?
- How does particle theory explain how energy moves?
- How do matter and energy interact?
- Does adding energy make it easier to study matter?
- How does the interaction of energy and matter impact human societies?

The following set of skills is designed to empower students to succeed in meeting the learning objectives of this subject and prepare them for future success in their academic programme.

- Self Management
- Communication
- Social Skills
- Thinking Skills
- Research

## Year 9 Assessment Criteria

Criterion A	Knowing and Understanding	Maximum 8
Criterion B	Inquiring and Designing	Maximum 8
Criterion C	Processing and Evaluating	Maximum 8
Criterion D	Reflecting on the Impacts of Science	Maximum 8

### Academic Integrity

This course follows Chinese International School's Academic Integrity Policy, which can be found at this link and in the Student and Parent Handbook.

### Academic Integrity Policy

#### **[Other Subject - or Course-Specific Necessities, e.g. resources, practices, expectations]**

Students develop an appreciation that science requires open-mindedness and freedom of thought.

Students reflect on the ethical, social, economic, political, cultural and environmental implications of using science to solve specific problems.

The scientific process, which encourages hands-on experience, inquiry, and critical thinking, enables students to make informed and responsible decisions, not only in science but also in other areas of life. Students are able to transfer their scientific understanding to everyday problems.

### Teachers

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