



# National Science Education Strategy

National Objective: Develop a passion for science by raising the level of scientific curiosity, skills, knowledge, and confidence for all students

## GOAL 1: HIGH QUALITY SCIENCE EDUCATION

**Ensure all students have access to high quality science education that includes scientific inquiry based skills as well as subject knowledge**

- Develop science teaching and learning policy for each school
- Increase and improve inquiry based science teaching and learning
- Introduce developmentally appropriate science texts and resources
- Regularly conduct formative and summative assessments of science
- Share best practises, subject content and skills
- Develop school based resource centres
- Implement mandatory minimum science instructional time

**Performance Indicator:** Students academic performance data show improvement from year to year. Baseline data needs to be established for all schools.

## GOAL 2: IMPROVED SCHOOL LEADERSHIP & TEACHING CAPACITY

**Enhance the quality of science related teaching and learning through improved school leadership and teaching capacity**

- Improve Continued Professional Development for teachers
- Form a working group of science school leaders
- Develop guidelines that outline effective science teaching
- Enhance the recruitment process for primary and secondary school teachers to ensure they have strong science pedagogy

**Performance Indicator:** The quality of teaching of science related subjects improve and measured through performance management. Baseline data needed.

## GOAL 3: PARTNERSHIPS

**Improve the skills, engagement, and participation of students by developing science related opportunities, through partnerships with tertiary education, businesses, industry and charities.**

- Further develop career links and/or pathways in science related fields
- Improve science related career and school options guidance
- Map routes for students into relevant science fields
- Introduce TVET and Apprenticeship pathways to science careers
- Improve awareness and diversity of local and international science related projects and competitions
- Form a National Science Committee that includes a range of stakeholders

**Performance Indicator:** Increase in the percentage of students who achieve science related scholarships, degrees and careers.

Detailed Science Education Strategy available at [www.education.ky](http://www.education.ky)

It is my great pleasure to present to you the Cayman Islands National Science Education Strategy 2018-2023. This strategy is a comprehensive plan to bring science to the forefront of education over the next five years.

Science is a fundamental subject for all, as like the other core subjects of English and Mathematics, it has an important bearing on our everyday lives. Science plays a key role in the development of inquiry, collaborative, reasoning and critical thinking skills. Regardless of whether our students end up in a science-related career or not, chances are, they will definitely require these skills to be globally competitive, and positive change agents within our communities.

Not only is this Science Education Strategy important for our students and the communities they belong to, but science is fundamental to the economic wellbeing of Cayman

*Hon. Juliana O'Connor-Connolly, JP*  
Minister for Education, Youth,  
Sports, Agriculture and Lands

