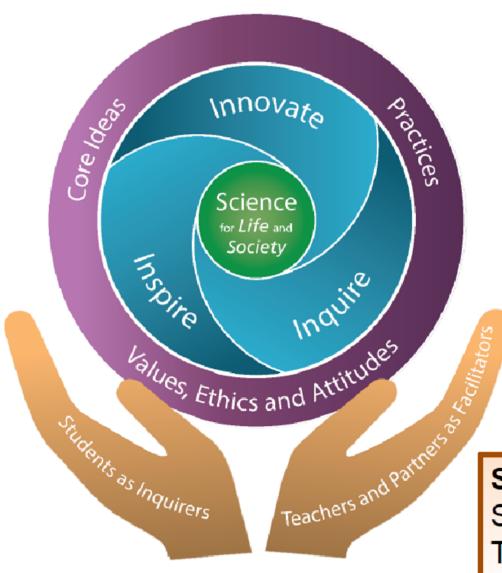
Curriculum Briefing 2024



Primary 4



REVISED SCIENCE CURRICULUM FRAMEWORK



Goals

Science for Life and Society

Vision - 3Ins

Inspire

Inquire

Innovate

Three Domains

Core Ideas

Practices

Values, Ethics and Attitudes

Stakeholders

Students as Inquirers

Teachers & Partners as Facilitators

GOALS OF SCIENCE EDUCATION Science for Life and Society

Personal/Functional

Possess scientific mindsets and practical knowledge of science and its applications to make everyday decisions, solve problems, and improve one's life Cultural/Civic

Appreciate science as humanity's intellectual and cultural heritage, the beauty and power of its ideas, as well as participate in socioscientific issues ethically and in an informed manner

Professional/Economic

Apply scientific knowledge and skills, as well as adopt scientific attitudes and mind-sets to innovate and push new frontiers

To enthuse and nurture all students to be scientifically literate

To provide
strong science
fundamentals for
students to
innovate and
pursue STEM for
future learning
and work

Grounded in strong science fundamentals: Scientific Knowledge, Practices and Values

Vision – encapsulates the overall experience of our students in Science education

Inspired by Science

Inquire like scientists

Innovate using Science

Enjoys learning Science

Possesses the spirit of scientific inquiry

Applies Science to daily life experiences

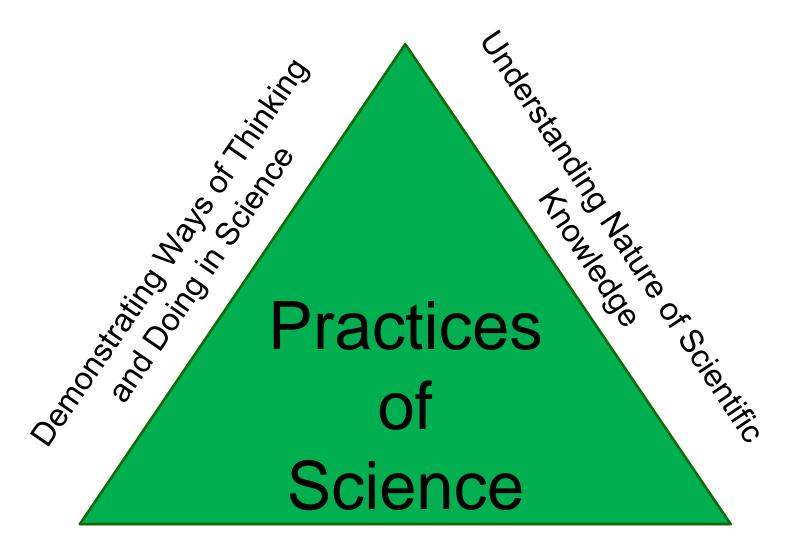
Discovers how Science solves global challenges

Engages confidently in the Practices of Science

environment

Relates to the roles
played by Science in
daily life, society and the

Sees connections between everyday phenomena and Science Generates creative solutions to solve a wide range of real-world problems



Relating Science-Technology-Society-Environment

Demonstrating Ways of Thinking and Doing in Science

Investigating	Evaluating & Reasoning Developing & Evaluating Solutions		
Posing questions and defining problems	Communicating, evaluating and defending ideas with evidence	Using and developing models	
Designing investigations	Making informed decisions and taking responsible actions	Constructing explanations and designing solutions	
Conducting experiments and testing solutions			
Analysing and interpreting data		ADDestration (

Understanding Nature of Scientific Knowledge

- Science is an evidence-based, model-building enterprise to understand the real world
- Science assumes natural causes, order and consistency in natural systems
- Scientific knowledge is generated through established procedures and critical debate
- Scientific knowledge is reliable, durable, open to change with new
 - evidence



Relating Science-Technology-Society-Environment

- There are risks and benefits associated with the applications of Science in society
- Applications of Science often have ethical, social, economic and environmental implications
- Application of new scientific discoveries often drive technological advancement while advances in technology enable scientists to make

new or deeper inquiry







Values, Ethics & Attitudes: foster an awareness and appreciation of values to sensitise students to the ethical implications of the application of Science in society



Themes and Topics in P4

Themes	Topics		
Systems	Plant SystemHuman Systems		
Cycles	• Matter		
Energy	 Light Shadows Heat Effects of Heat 		

Pedagogy





Key Focus Programmes

- Makers infused lessons
- Environmental education

School wide sustainability efforts





2024 Assessment Overview

P4	WA 1	WA 2	WA 3	EYE
Duration	25 min	25 min	25 min	1 h 45 min
Weighting	15 marks	15 marks	10 marks	100 marks
Type of questions	MCQ / Open-ended		Online Performance Task	MCQ / Open-ended





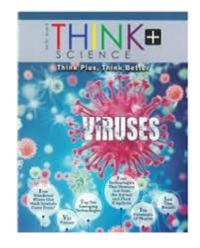




Other forms of assessments during daily lessons

How Parents Can Support Learning

- Observe Science everywhere and in everyday life
- Encourage your child to ask questions
- Lead family discussions on science-related topics
- Explore non-formal education sites as a family https://www.discoverymindblown.com/
 - https://climatekids.nasa.gov/
- Monitor your child's work regularly
- Encourage thinking aloud and discuss solutions









Thank you