

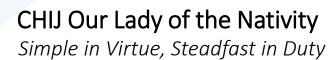
Primary 6 Science





An Overview: Big Ideas in the Primary Science Syllabus

Big Ideas (Themes)	Key Inquiry Questions	
Diversity	 What is the environment made up of? Why is it important to maintain diversity? How do we go about understanding the diverse range of living and non-living things? 	
Systems	 What are different parts of a system? How do parts of a system or different systems interact together to perform a function? 	
Interactions	 How does Man interact with the surroundings? What are the consequences of Man's interactions with his surroundings? 	
Cycles	 What are the cycles in our everyday life? • How are cycles important to life? 	
Energy	 How does energy affect Man and his surroundings? Why is it important to conserve energy? 	





Overview of the Primary Science Syllabus

Themes	Lower Block (P3 & P4)	Upper Block (P5 & P6)
Diversity	Diversity of living and non-living thingsDiversity of materials	
Cycles	Cycles of Plants and Animals (Life Cycles)Cycles in matter and water (Matter)	Cycles in plants and animals (Reproduction)Cycles in matter and water (Water)
Systems	 Plant system (Plant parts and functions) Human system (Digestive system) 	 Plant /Human system (Respiratory and circulatory systems) Cell system Electrical system
Interactions	Interaction of forces (magnets)	 Interaction of forces (Frictional, gravitational forces, force in springs) Interaction within the environment
Energy	Energy forms and uses (light and heat)	Energy forms and uses (photosynthesis)Energy conversion



Components of lessons

- Theory: Acquisition of basic scientific terms and concepts
- Practical: Carry out experiments in the science laboratory (Term 1 and Term 2)
- Science Workbooks required at P6 (Interactions/Energy)
- Supplementary / Process Skills Worksheets
- Practice Papers
- PSLE Booklets

NOTE: Files will be returned for parents' checking and signature upon completion.



Supplementary Lessons

- Commence in Term 1
- June and Sept Holidays supplementary classes (schedule will be given at a later date)

Focus for supplementary lessons:

- Reteach concepts taught in class.
- Use diagnostic approach to reinforce concepts.
- Focused on areas that pupils are weak at.
- Revision (P3 P6 topics)
- Use PSLE booklet to expose pupils to a variety of authentic PSLE questions.





Science Assessment

The P6 pupils will sit for the followings:

Conditioning
Exercise
(Term 1-ungraded)

Mid-Year Examination (MYE)

Preliminary Examination





Standard Science Format

Booklet A

- 28 Multiple Choice Questions (MCQ)
- 4 options given, choose the correct answer
- Total : 28 x 2marks = 56 marks





Standard Science Format

Booklet B

- 12 Open-Ended Questions (OE)
- May consist up to 4 parts e.g. (a), (b), (c), (d)
- Each part could be 1 mark or 2 marks
- Each question could be up to 5 marks
- Total: 44 marks





Foundation Science Format

Booklet A

- 18 Multiple Choice Questions (MCQ)
- 3 options given, choose the correct answer
- Total : 18 x 2marks = 36 marks





Foundation Science Format

Booklet B

- Structured and Open-ended questions
- May consist up to 4 parts e.g. (a), (b), (c), (d)
- Structured questions: 2 to 3 marks (14 marks)
- Open-ended questions: 2 to 4 marks (20 marks)
- Total: 34 marks





How do we guide your child in constructing scientific explanations?





The Science department adopted the Claim-Evidence-Reasoning (CER) Framework (developed by McNeill and Krajick) to guide pupils when constructing science explanations.

CER stands for:









Why use CER answering technique?

Three key areas during constructing science explanations:

Identify and use Evidence.

• Providing Reasoning for why their evidence supports their Claim.

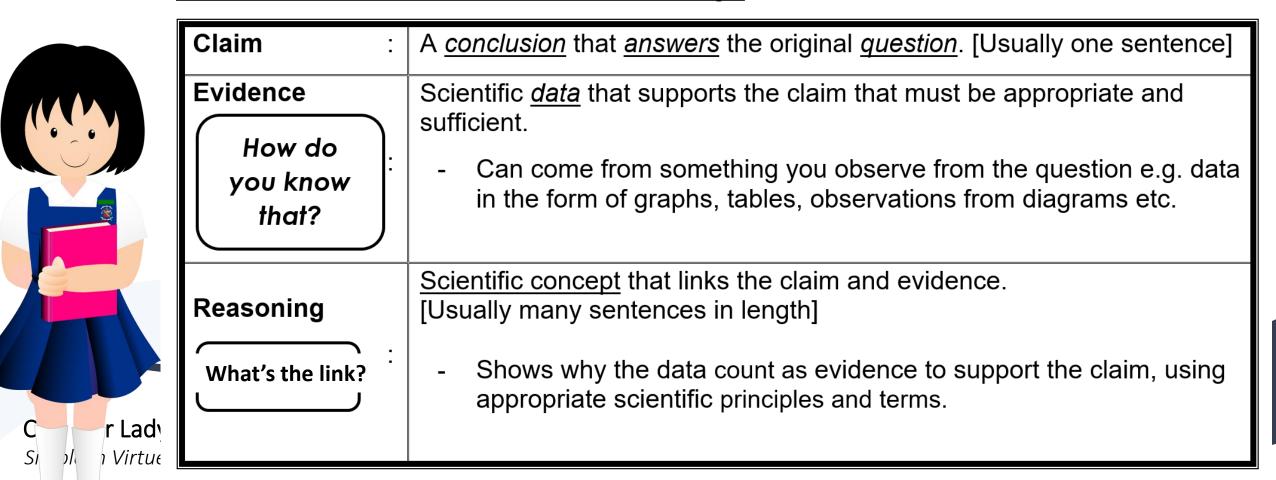




Components

- Make a <u>Claim</u> about the problem.
- Provide <u>Evidence</u> for the claim.
- Provide scientific Reasoning that links the evidence to the claim.

What is Claims, Evidence and Reasoning?





Q & A Session

