P5 English Language, Mathematics & Science Subject Information for Parents

SENGKANG GREEN
Primary School

SENGKANG GREEN Primary School

English Language Curriculum & Expectations

The **English Department** aims to develop *confident* and *proficient* users of the language who have strong foundation in *and* *love* for the English Language.

We look forward to working with you to develop your child's interest in learning English.

EL Syllabus 2020

Desired Learner Outcomes

Empathetic Communicator

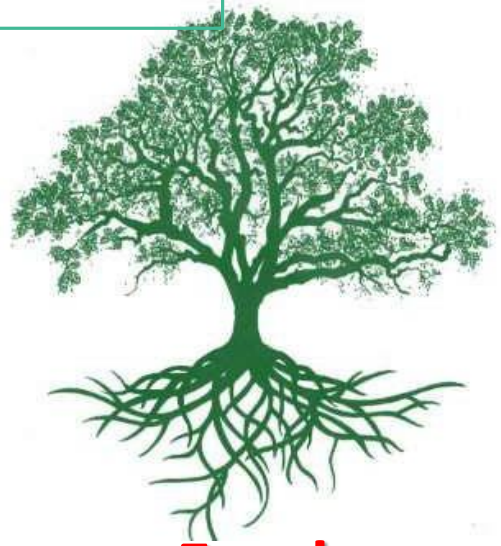
offer <u>more opportunities</u> for students to discuss issues, listen to different perspectives and develop their own opinions.

Discerning Reader

encourage students to <u>read widely</u> and process information critically so as to distinguish fact from falsehoods.

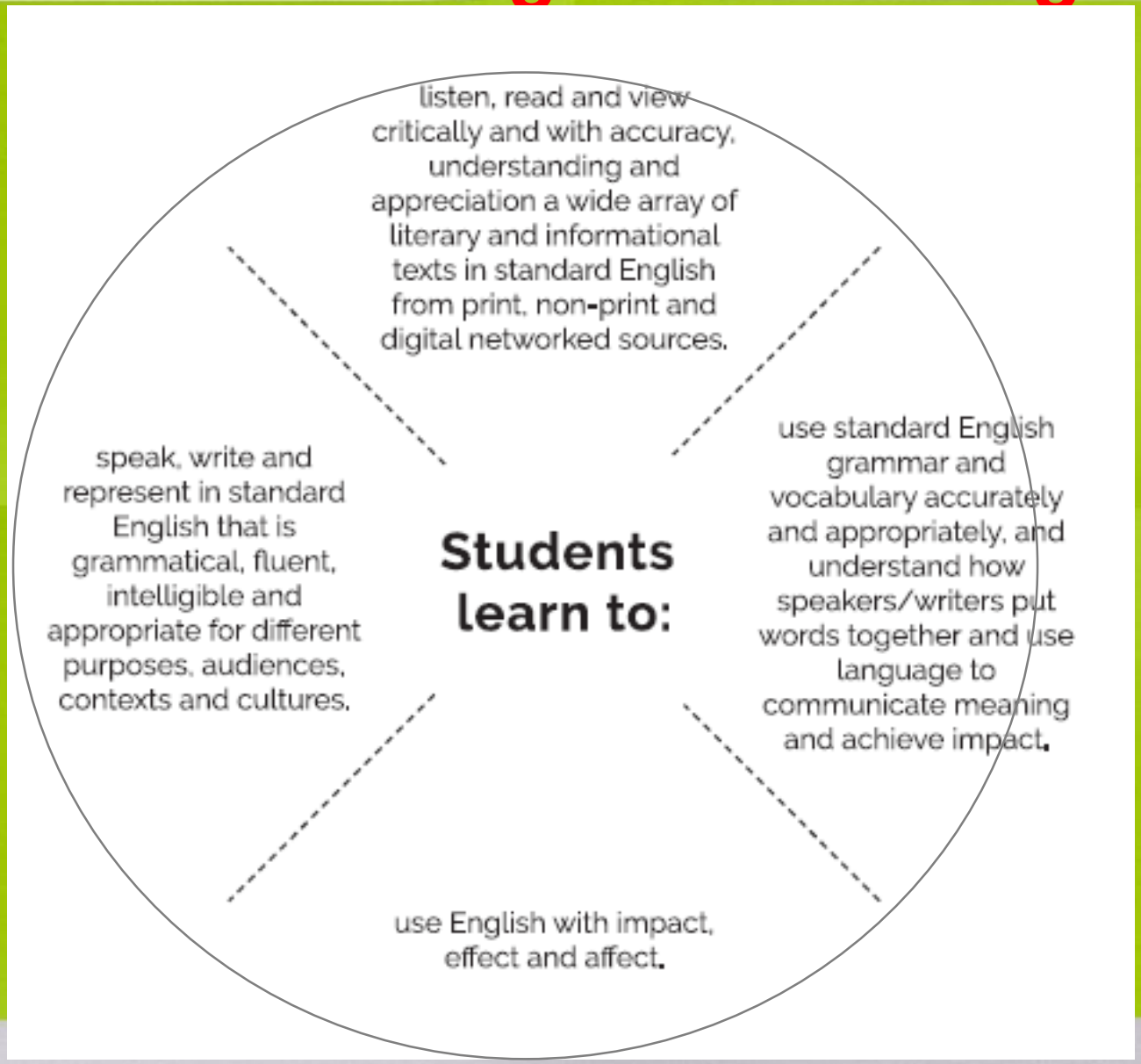
Creative Inquirer

encourage students to <u>explore</u> ideas, concepts and areas of interest and promote the joy of learning.



Stronger Fundamentals
Future Learning

Aims of English Learning



P5 Level Focus

Reading

- analyse and explain literal and implied information from a variety of texts
- read with good pronunciation, clear articulation & appropriate intonation in order to convey information, ideas & feelings in a passage

Writing

- create imaginative, informative & persuasive texts for different purposes and audiences
- understand grammar and sentence types, select specific vocabulary and use accurate spelling and punctuation

Speaking & Listening

- express opinions, ideas & experiences clearly and effectively
- speak fluently and with grammatical accuracy, using appropriate vocabulary & structures
- infer & draw conclusions by listening critically
- Identify main ideas and details in spoken texts

English Language Assessment Components

Paper 1 : Writing

Paper 2 : Language Use and Comprehension

Paper 3 : Listening Comprehension

Paper 4 : Oral Communication

Paper 1: Writing

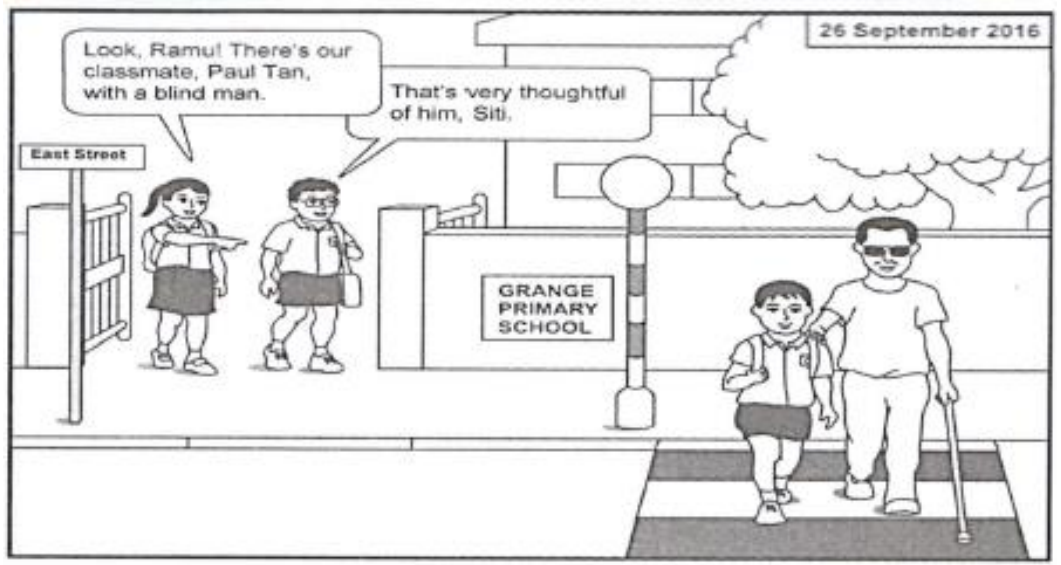
Part I: Situational Writing

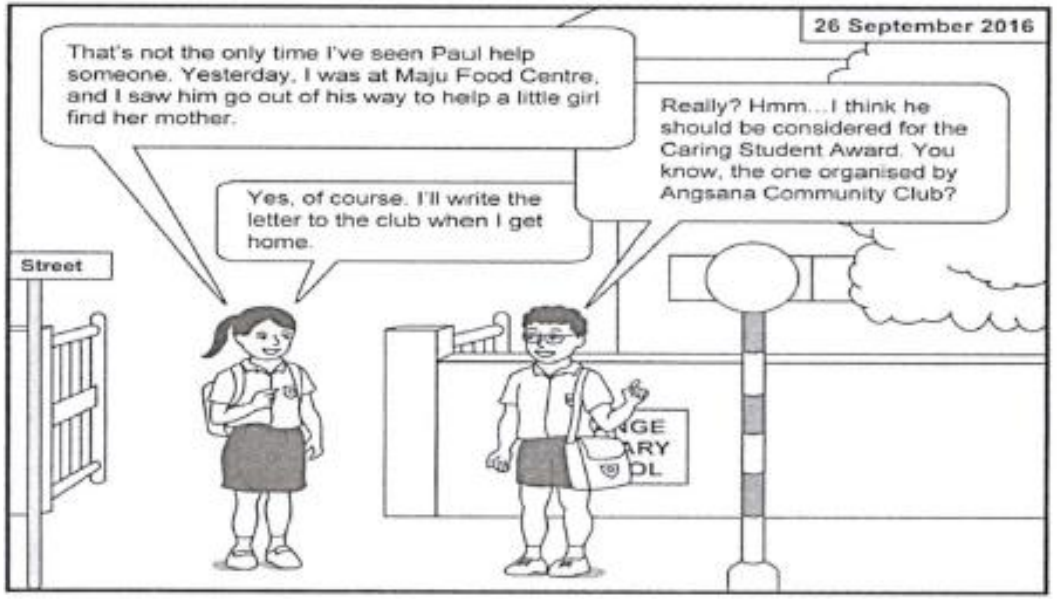
Part II: Continuous Writing

Situational Writing (EL/FEL)

- Write an email, a letter or a report based on a given situation

- Purpose – WHY?
- Audience – WHO?
- Context – Formal or informal?





Continuous Writing (EL)

- Write a composition of at least 150 words in continuous prose on a given **topic**.

2 POINTS

TOPIC

VISUALS

Write a composition of at least 150 words about **a secret**.
The pictures are provided to help you think about this topic. Your composition should be based on one or more of these pictures.
Consider the following points when you plan your composition:

- What was the secret?
- Why was it kept a secret?

You may use the points in any order and include other relevant points as well.

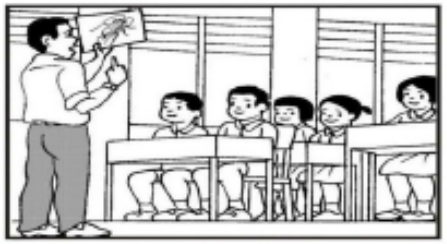
Continuous Writing (FEL)

VISUALS

The pictures below show what happened in class one morning.

Based on these pictures, write a story of at least 120 words.

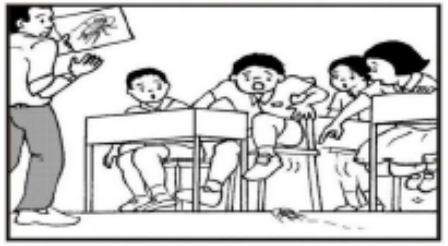
Give the story your own ending. You may use the given helping words and phrases. You may also include other details.



Science lesson

picture card of a cockroach

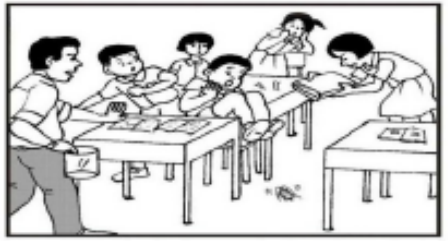
listening attentively



noticed a cockroach

raised his legs

frightened



heavy book

to crush the cockroach

empty jar

?

HELPING WORDS

Traits of Good Writing

Writing Skills

Parents Can Encourage Your Child To

- Copy out good sentences and paragraphs in a notebook.
- Learn from P5-P6 spelling & dictation lists. Proficient spellers are likely to use a wider range of vocabulary and are less repetitive, more effective and confident in their writing.
- Read the newspapers. Read good stories.

Reading and Writing are connected.
Proficient readers do make good writers.

Paper 2

Language Use and Comprehension

Booklet A

- Grammar MCQ
- Vocab MCQ
- Vocab Cloze MCQ
- Visual Text Comprehension

Booklet B

- Grammar Cloze
- Editing for Spelling & Grammar
- Comprehension Cloze
- Synthesis & Transformation
- Comprehension Open-ended

Foundation English

Booklet A

- Grammar MCQ
- Punctuation MCQ
- Vocab MCQ
- Visual Text Comprehension MCQ

Booklet B

- Form Filling
- Editing for Spelling
- Editing for Grammar
- Completion of Sentences
- Synthesis
- Comprehension Open-ended

Paper 3

Listening Comprehension

Listening Comprehension Strategies

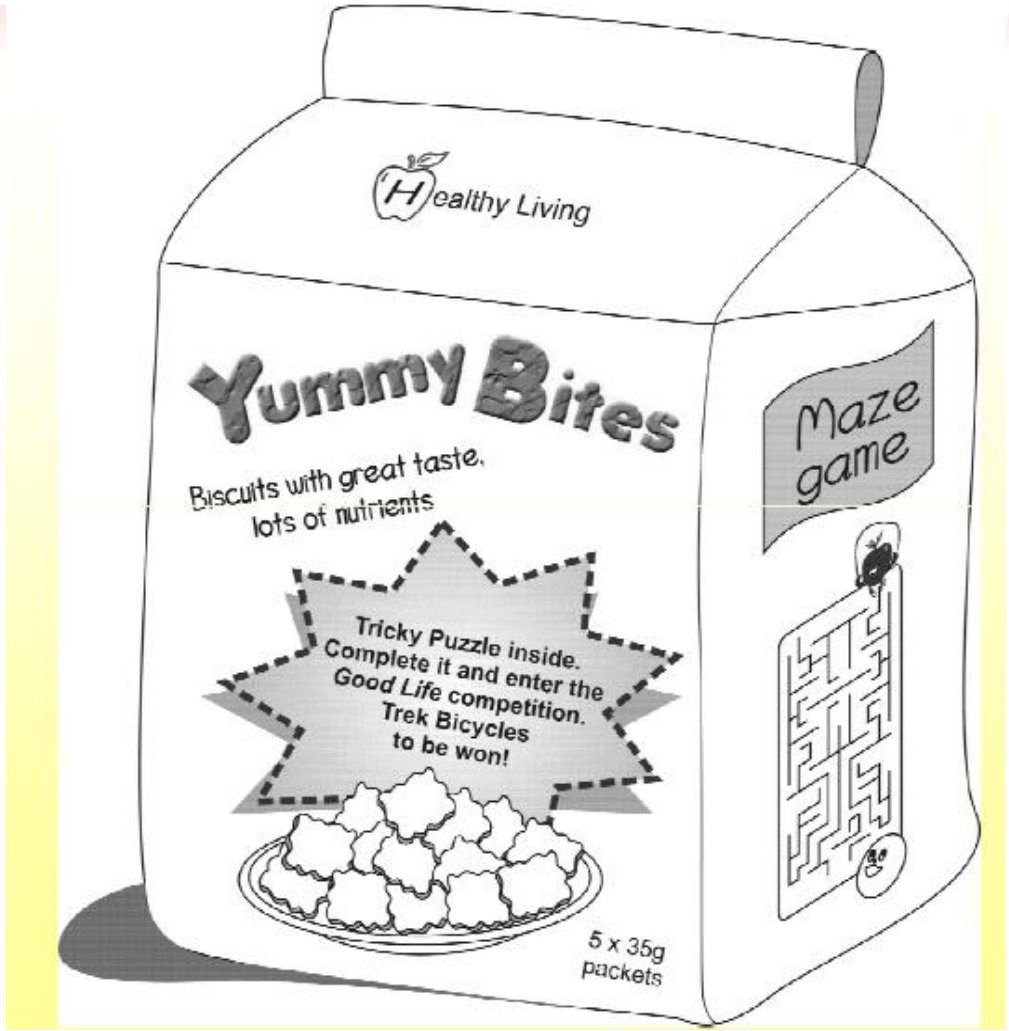
1) Listen to the text and answer the questions.
2) As you listen, write down the key words used.
3) Shade your answer immediately on the OAS.
4) Scan the questions.
5) If you are unsure of your answers, use the elimination strategy. Eliminate any answers that you think is incorrect.
6) Listen to the text the second time and finalise the answer.

Paper 4: Oral Communication

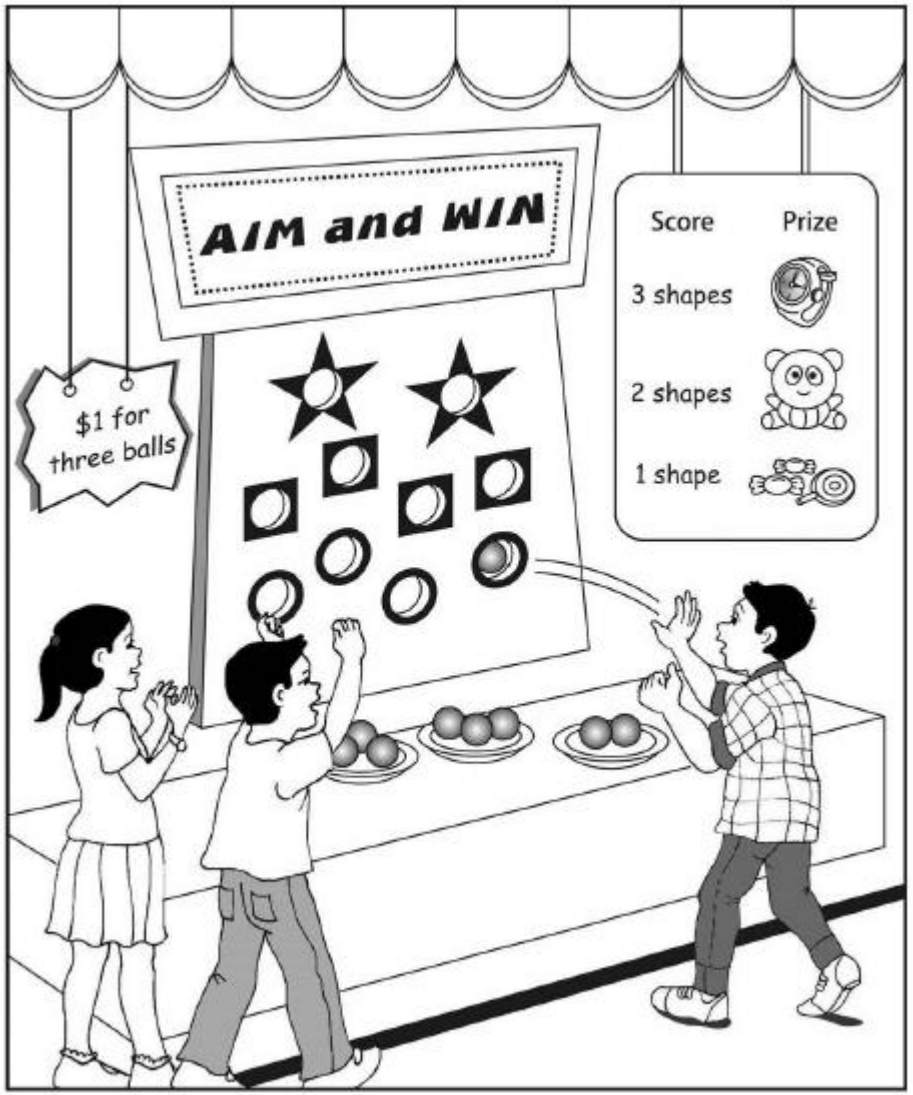
Part I: Reading Aloud

Part II: Stimulus-based Conversation

Stimulus-based Conversation (EL)



Stimulus-based Conversation (FEL)



School-based Assessment

School-based Assessment: An Overview

Term 1	Term 2	Term 3	Term 4
Test 1 Paper 2: Lang Use & Compre	SA1 ▪ Paper 1: Writing ▪ Paper 2: Lang Use & Compre ▪ Paper 3: Listening Comprehension ▪ Paper 4: Oral Communication	Test 2 Paper 2: Lang Use & Compre	SA2 ▪ Paper 1: Writing ▪ Paper 2: Lang Use & Compre ▪ Paper 3: Listening Comprehension ▪ Paper 4: Oral Communication

How parents can help to support their children's learning of EL?

Cultivate the reading habit

- ❑ Go to the library together. Read to your child. And he reads to you.
- ❑ Place many books, magazines and newspapers visibly around your home.
- ❑ Share what you have read with your child
- ❑ Encourage your child to read in his/her mother tongue language.
- ❑ Talk to your child about what he/she is reading.

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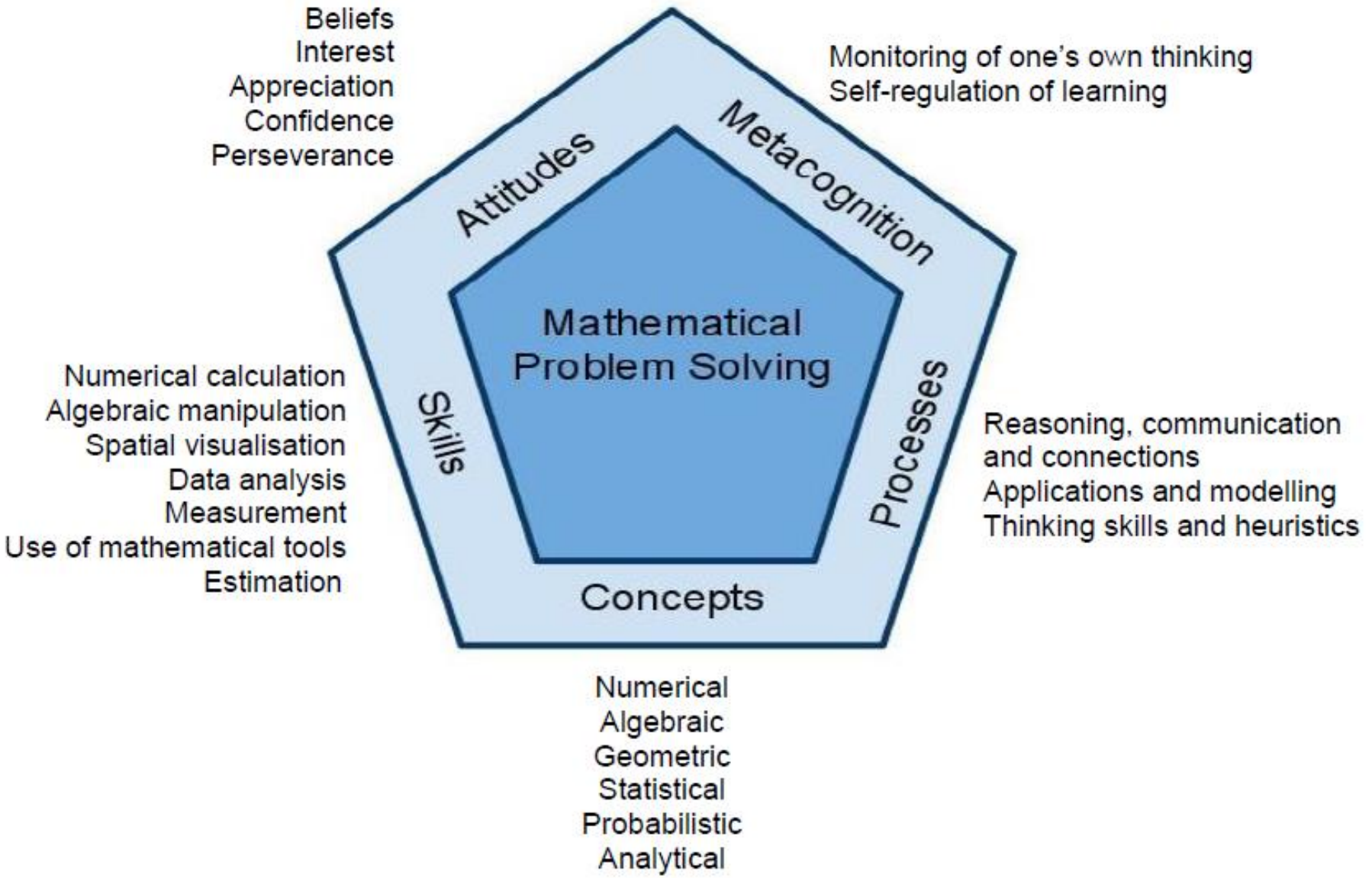
MATHEMATICS

MOE Mathematics Curriculum Framework



Spiral Mathematics Curriculum

Primary 1	Primary 2 & 3	Primary 4	Primary 5	Primary 6
Whole Numbers	Whole Numbers	Whole Numbers	Whole Numbers	Whole Numbers
Measurement	Measurement	Measurement	Measurement	Measurement
Geometry	Geometry	Geometry	Geometry	Geometry
Data representation & interpretation	Data representation & interpretation	Data representation & interpretation	Data representation & interpretation	Data representation & interpretation
Money	Money	Decimal	Decimal	Decimal
	Fractions	Fractions	Fractions	Fractions
			Percentage	Percentage
			Ratio	Ratio
			Rate	Speed
				Algebra

27

Aims of Primary Mathematics Education

To enable students to:

- Acquire mathematical concepts and skills for everyday use and continuous learning in mathematics.
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving.
- Build confidence and foster interest in mathematics.

Content Strands in Mathematics Syllabus

Number & Algebra	Measurement & Geometry	Statistics

• Whole Numbers
• Fractions
• Decimals
• Percentage
• Ratio
• Rate and Speed
• Algebra
	• Measurement
	  ○ Length, Mass and Volume (of Liquid)
	  ○ Time
	• Area and Volume
	  ○ Area and Perimeter
	  ○ Volume of Cube and Cuboid
	  ○ Circles
	• Geometry
	  ○ Angles
	  ○ Triangles
	  ○ Quadrilaterals
	  ○ Nets
		• Data Representation and Interpretation
		  ○ Tables, Bar Graphs and Line Graphs
		  ○ Pie Charts
		• Data Analysis
		  ○ Average

P5 Mathematics Topics

5A Topics	5B Topics
Whole Numbers • Numbers up to 10 million • Four Operations	**Decimals** • Four operations
Fractions • Fractions and division • Four Operations	**Rate**
Area and Volume • Area of Triangles • Volume of cube and cuboid	**Percentage**
Ratio	**Data Analysis** • Average
	Geometry • Angles • Properties of triangles • Parallelograms, rhombus and trapeziums

P5 Level Focus

Concepts	Develop a good foundation of ratio concepts Develop a good foundation of percentage concepts and their connections to fraction and decimal concepts Develop a good understanding of geometrical concepts Develop a good understanding of concepts of volume
Skills	Acquire procedural fluency for multiplication of fractions Acquire proficiency in use of calculator for numerical calculation
Processes	Apply mathematical reasoning and communication Acquire the proficiency in using model method for problem solving Develop a good understanding of using heuristics for problem solving [Before & After, Look for a Pattern, Working Backwards]
Attitudes	Develop the perseverance in solving problems
Metacognition	Develop from 'Strategic' learners to 'Reflective' learners • 'Strategic' learners organise their thinking by using problem solving, grouping and classifying, evidence seeking, decision making, etc. They know and apply the strategies that help them learn. • 'Reflective' learners are not only strategic about their thinking but they also reflect upon their learning whilst it is happening, considering the success or not of any strategies they're using and then revising them as appropriate.

P5 School-Based Weighted Assessments (2020)

Term 1	Term 2	Term 3	Term 4
• **Test 1**	• **Semestral Assessment**	• **Test 2**	• **Semestral Assessment**
10%	**20%**	**10%**	**60%**

- Semestral Assessment follows the PSLE exam format
- To assess students' mastery of the concepts and skills that have been taught

SCHOOL EXAMINATION FORMAT (STANDARD MATH)

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1 **	A	Multiple-choice	10	1	10	1 h
			5	2	10	
	B	Short-answer	5	1	5	
			10	2	20	
2		Short-answer	5	2	10	1 h 30 min
		Long-answer	12	3, 4 or 5	45	
			47	-	100	2 h 30 min

** The use of calculators is not allowed for Paper 1

Good Time Management is Important

Paper (Duration)	Number of Questions	Average time spent on each question	Time left for checking
Paper 1 (60 min)	30 Questions	1.5 min (1.5 x 30 = 45)	15 min
		2 min (2 x 30 = 60)	No time to check
Paper 2 (90 min)	17 Questions	5 min (5 x 17 = 85)	5 min
		6 min (6 x 17 = 102)	No time to finish and check

SCHOOL EXAMINATION FORMAT

- Paper 2 allows students the use of calculators to solve problems
- Only calculators that are approved by SEAB will be allowed for use in the examinations
- The list of approved calculators is available on the SEAB website - https://www.seab.gov.sg/home/examinations/approved-calculators

How do we support your child…

- Engage your child in meaningful activities to explore and learn mathematical concepts and skills, individually or in groups
- Review topics from P3 to P4 and teach new topics such as Percentage, Ratio and Rate.
- Practise past paper questions and other schools' exam papers
- Teach application of various heuristics to solve problems
- Practise good time management and presentation of solutions
- Consolidate and revise concepts and key topics

Parents as partners-in-education

- Practise reinforces learning. Get your child to practise daily. Use available resources like the textbook and worksheets.
- Develop your child's time management skills.
- Ensure that your child has a calculator that works and no calculator is used in daily work unless calculator symbol is indicated.
- If your child has difficulty with his/her homework, do not be too quick to provide the answers but guide him/her with questions and indicate on the homework 'assisted' or 'guided'.
- Get your child to explain certain concepts or how he/she is able to solve the problem. Articulating the strategy helps your child to develop clarity in his/her thinking.
- Revise previous years' topics to ensure that your child has a firm foundation as the P5 Maths learning builds on the concepts and skills learned in P1-P4.

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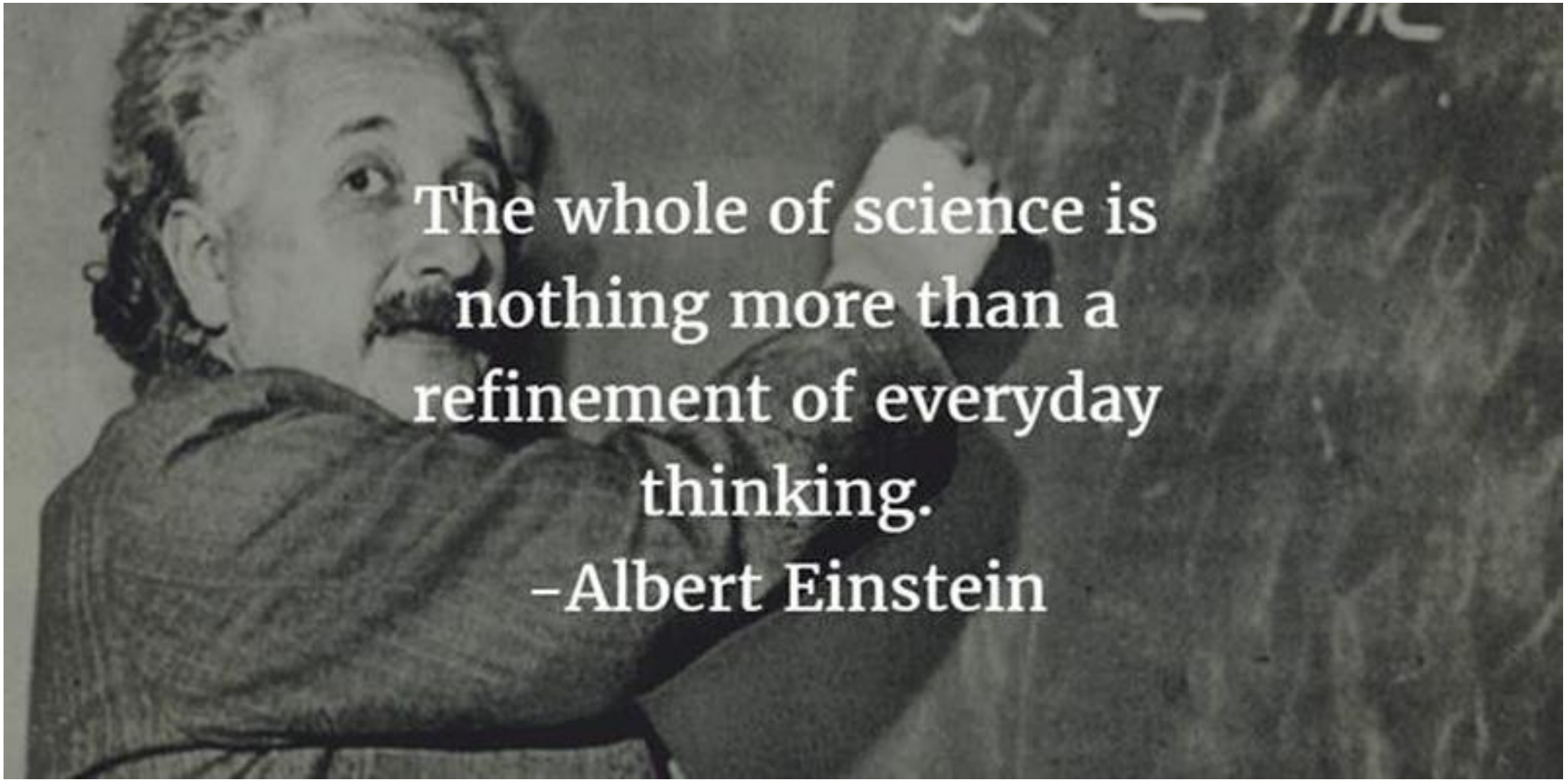
SCIENCE

How You Can Support You Child



How can parents encourage their child to learn science

4Es

Engage in discussion - **TALK, WRITE**

Encourage questioning and researching

Explore and **Experiment**

R

Revise previous P3-P4 topics early

Aims of Primary Science Education

- Provide students with **experiences** which **build on their interest** in and **stimulate their curiosity** about their environment
- Provide students with **basic scientific terms and concepts** to help them understand themselves and the world around them
- Provide students with opportunities to **develop skills, habits and mind and attitudes** necessary for **scientific inquiry**
- Prepare students towards **using scientific knowledge and methods** in making **personal decisions**
- Help students **appreciate how science influences people and the environment**

Science Department aims to

- stimulate children's **curiosity** and **passion** for science through meaningful, authentic experiences
- nurture reflective thinkers who **ask scientific questions** and **appreciate how science affects their lives, the society and the environment**
- develop scientific literacy in learners to face challenges in the present and for the future

How parents can support their child . . .

- Quiz you child on **scientific facts and knowledge**. Get them to **explain the concepts**. They can also use **drawings and concept maps** to elaborate on their ideas. Encourage them to use their **Science Notebook**!

- Get them to **talk and make connections** with the **different themes and topics**, especially the previous years' topics. Help them be confident to articulate their thoughts. **This helps them remember learnt concepts better!**

- Get them to think about **reflect**, **analyse everyday phenomenon** and **interpret data and information.**
  For example:
  - *Tell me about the water cycle. What do you remember about states of matter, from P4?*
  - *What is the difference between boiling and evaporation? Why does it rain? How are clouds formed?*

P5 Level Focus

Domains	Learning Outcomes
Knowledge, Understanding, Application	Understanding these systems allows Man to understand **how they operate and how parts influence and interacts with one another to perform a function**
Skills & Processes	To **develop conceptual knowledge** and **integrate skills and processes to inquire things and phenomena**: • **Making a general explanation for a related set of observations or events** • Assessing how reasonableness, accuracy and quality of information processes or ideas • **Investigation**
Ethics and Attitudes	To handle and **communicate data and information** with integrity

Primary Science Syllabus

THEME	LIFE SCIENCE
DIVERSITY	DIVERSITY OF LIVING THINGS
CYCLES	LIFE CYCLES OF PLANTS AND ANIMALS *CYCLES IN PLANTS AND ANIMALS (P5 TERM 2) (REPRODUCTION)
SYSTEMS	PLANT SYSTEM HUMAN SYSTEM *PLANT & HUMAN SYSTEM (P5 TERM 3) (RESPIRATORY & CIRCULATORY SYSTEMS) *CELL SYSTEM (P5 TERM 2)
INTERACTIONS	ENVIRONMENT
ENERGY	PHOTOSYNTHESIS

P3 Topics P4 Topics P5 Topics P5 Topics (not included for Foundation)
P6 Topics P6 Topics (not included for Foundation)

Primary Science Syllabus

THEME	PHYSICAL SCIENCE
DIVERSITY	DIVERSITY OF NON-LIVING THINGS
CYCLES	*WATER (P5 TERM 1)
SYSTEMS	MATTER *ELECTRICAL SYSTEM (P5 TERM 4)
INTERACTIONS	FORCES (MAGNETS) INTERACTION OF FORCES (FRICTIONAL FORCE, GRAVITATIONAL FORCE, FORCE IN SPRINGS)
ENERGY	LIGHT HEAT ENERGY CONVERSION

P3 Topics P4 Topics P5 Topics P5 Topics (not included for Foundation)
P6 Topics P6 Topics (not included for Foundation)

School-Based Weighted Assessment

TERM 1	TERM 2	TERM 3	TERM 4
Test 1 *10%*	Mid-Year Examination *20%*	Test 2 *10%*	End of Year Examination 60%
30%		**70%**	
Other forms of assessments (Non-weighted) •Reviews •Use of Science notebook / Concept Mapping / Drawing / Reflections			

- To assess pupils' mastery of the concepts and skills that have been taught.
- As the learning of Science goes through a spiral approach, the assessments also reviews concepts taught in the Lower Block (P3&P4)

Standard Science Examination Format

Booklet	Item Type	Number of questions	Number of marks per question	Weighting (%)
A	Multiple-choice	28	2	56
B	Open-ended	12-13	2-5	44
				100

(a) Booklet A consists of 28 multiple-choice questions with 4 options. Each multiple-choice question carries 2 marks.

(b) Booklet B consists of 12-13 open-ended questions. Each open-ended question carries 2,3,4 or 5 marks.

Students are required to answer all the questions in the 2 booklets.
Duration of the paper is **1 hour 45 minutes.**

Weighting (Standard Science)

Theme	Weighting (%)
Diversity	10-20
Cycles	15-25
Systems	10-25
Interactions	15-30
Energy	15-25
Weighting	100

How You Can Support Your Child
Encourage their interests in Science

- Websites
  - National Geographic Kids (https://kids.nationalgeographic.com/)
  - Bill Nye (https://www.billnye.com/)
  - Kids Sites (http://www.kidsites.com/sites-edu/science.htm)
  - How Stuff Works (https://www.howstuffworks.com/)
  - Science News for Students (https://www.sciencenewsforstudents.org/)

Enjoy the science learning journey with your child!

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Primary School

Do refer to PG notification dated
17 February 2020 for P5 assessment details.

Thank You