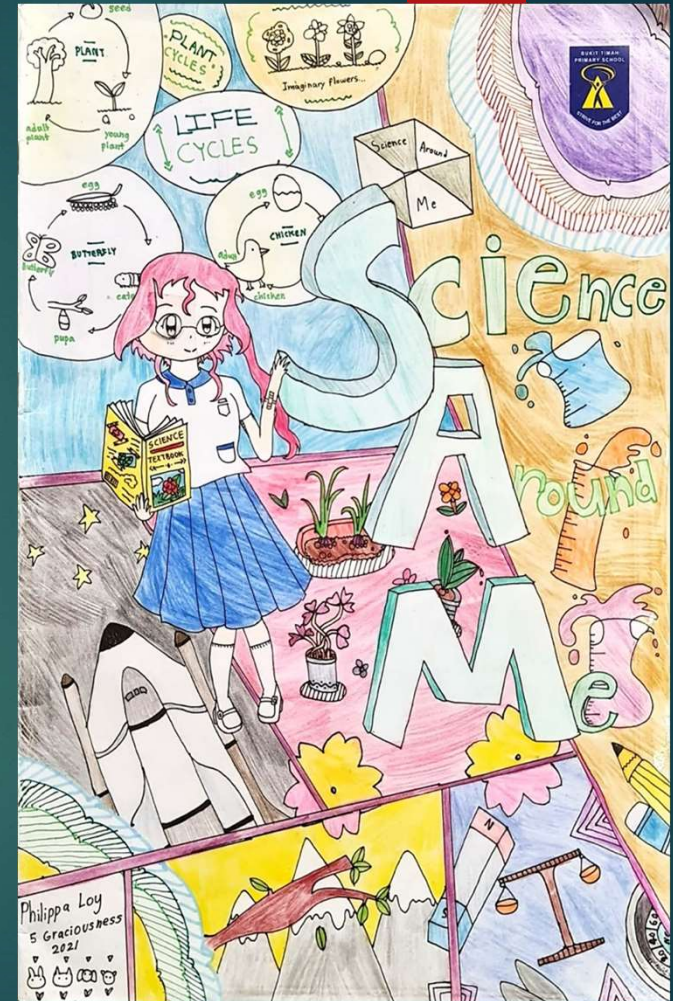


Teaching and Learning Science

To nurture **Every Child** to be a **Self-directed Inquirer of Science Around Us**



Loy Hsin Ping Philippa
5 Graciousness 22021

Primary 5 Syllabus

Themes	Topics
Cycles	Reproduction in Humans
	Reproduction in Flowering Plants
	Water Cycle
Systems	Cells (Std Sci only)
	Electrical systems
	Respiratory and Circulatory systems

Resources

- Textbooks
- SAM Journals
- Science topical worksheets
- Exam Practice Papers
- Specimens for experiments and observations

Topical Checklist and Examination Review

Self-Assessment on Reproduction Process in Humans and Flowering Plants

Choose the level that describes how well you have understood each of the Science ideas.

Levels	Descriptors
1	I have understood this Science idea the least . (I don't get it)
2	I have some understanding about this Science idea. (I partially get it)
3	I have understood this Science idea very well and can explain it to my friend. (I get it)

No.	Science ideas and Skills	Levels		
		1	2	3
1.	I understand that living things reproduce to ensure continuity of their kind.			
2.	I can state the characteristics of an organism that are passed on from parents to their <u>off-spring</u> .			
3.	I know the process of fertilisation in the sexual reproduction of humans.			
4.	I understand the process of pollination in the sexual reproduction of flowering plants.			
5.	I understand the process of Fertilisation in the reproduction of flowering plants.			
6.	I understand the process of Seed Dispersal in the reproduction of flowering plants.			
7.	I can compare the process of fertilisation in the sexual reproduction of			

Primary 4 Science SA1 Review 2019

Pupils have generally done well in the following areas:

Process Skills: Observation and Classification

Pupils were able to identify living things and non-living things (Q1). They were able to identify the characteristics of living things based on the data given (Q2). Pupils were able to identify the correct property of material based on the bar graph given (Q4). Pupils can identify life cycles of the animal that they are required to know and stating similarities or differences based on the diagram given (Q5 and Q6). Pupils were able to identify how a seed germinates (Q12) and what happens as it grows from a seedling to an adult plant (Q7 and Q9).

They were able to identify a non-example of matter (Q13) and understand the properties of matter (Q14). Pupils were able to conclude the characteristics of solid, liquid or gas in a given set-up (Q15, Q16, Q17 and Q20). They were able to identify that digestion ends in the small intestine (Q24).

They are generally able to read flowcharts and tables by using the information for answering of the question (Q11, Q27 and Q28).

Science ideas that need review:

Areas for Improvement	Answers Given	Learning Point
Incomplete explanation		

Certainty Response Index

Bukit Timah Primary - Certainty of Response Index (CRI)

CRI 1: Wild Guess

CRI 2: Reasonable Guess

CRI 3: Fairly Sure

CRI 4: Sure

Qn	CRI 1	CRI 2	CRI 3	CRI 4	CRI 1/2 Correct	CRI 3/4 Wrong	Action to be taken
1							

C-E-R Framework

McNeill & Krajcik (2012)

- **Claim**
 - *the answer/conclusion about a problem*
- **Evidence**
 - *Scientific data (information/clues) in the question that is appropriate to support your claim*
- **Reasoning**
 - *Justification using scientific concepts*

Process Skill - Investigation

In conducting an experiment, you should do the following:

1	Come up with a question for my experiment.
2	Make a prediction (hypothesis) and give a reason why I think it will happen this way.
3	List out the things I need.
4	Identify the variable to change. (Independent Variable)
5	Identify the variable to measure. (Dependent Variable)
6	Identify the variables to keep the same. (Constant Variable)
7	Write down the steps of the experiment.
8	Record the results in the form of a table or graph.
9	Make a conclusion based on the results.
10	Think of ways to improve my experiment.



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P5 Science Assessment

Term	Assessment	Percentage	Topics
1	WA1: Topical Review Std: 40 marks Fdn: 30 marks	10%	Reproduction in Flowering Plants and Human Revision Topics: P3: Materials P4: Life Cycles
2	WA2: Topical Review Std: 40 marks Fdn: 30 marks	15%	P5 Cycles (Whole book) Cells (Std Sci only) Revision Topic: P3: Magnets
3	WA3: Journal (20 marks)	15%	Electrical Systems
	TOTAL	40%	

P5 Science Assessment

Term 4 - SA2 Examination (60%) Duration: 1 h 45 min (Std Sci)		Total marks
MCQ	28 Qn: 2 marks each	56
Open-ended	12-13 Qn: 2-5 mark each	44
Topics	All topics from P3-P5	100

Term 4 - SA2 Examination (60%) Duration: 1 h 15 min (Fdn Sci)		Total marks
MCQ	18 Qn: 2 marks each	36
Structured	6-7 Qn: 2-3 marks each	14
Open-ended	5-6 Qn: 2-4 marks each	20
Topics	All topics from P3-P5	70

After School Class (Science)

- ▶ Based on Review paper results.
- ▶ Class will focus on revisiting P4 topics for pupils who need more support. Starts week after CNY.
- ▶ PG message will be sent next week to selected students.

Work Like A Scientist

- ▶ After school programme which interested pupils can apply to take part in.

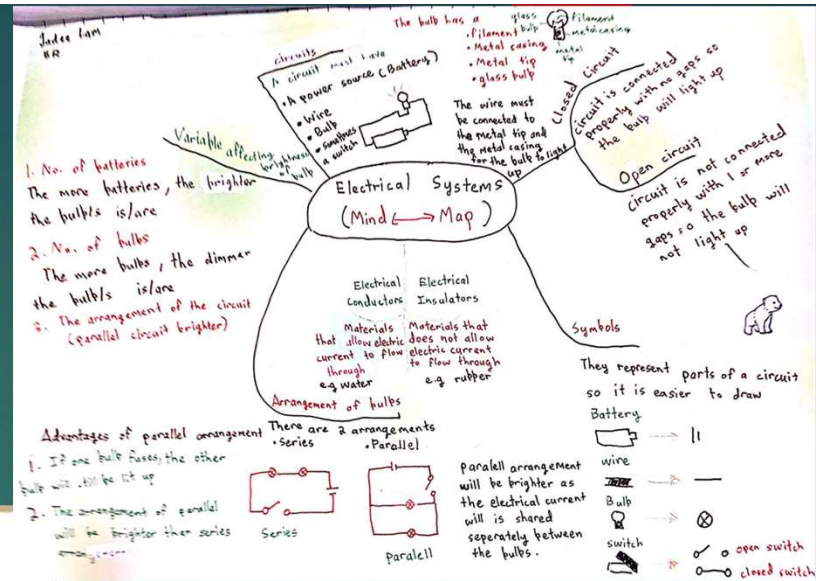
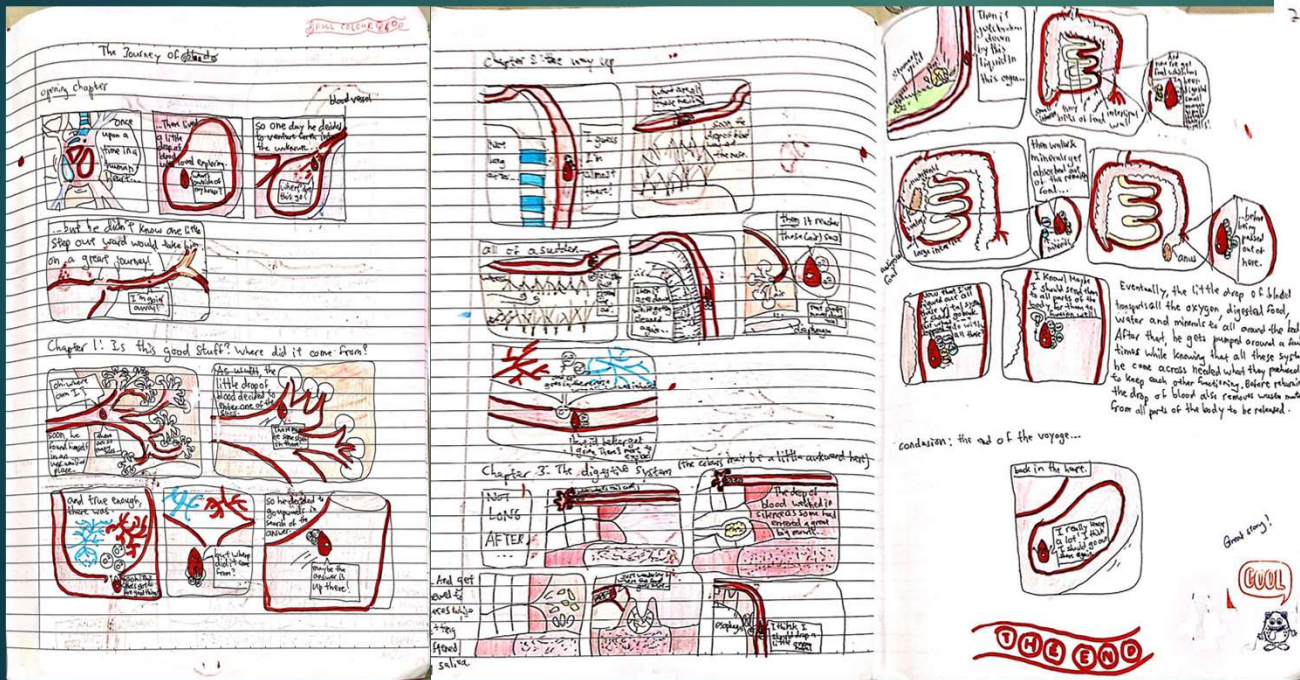


5 Learning Behaviours



5 Respect 2021 – Best Entries

Zoe Lee Si Xuan



Lam Zheng Wei

5 Adaptability 2021 – Best Entries

Lim Shi Han, Joey

Systems

What is a system?

System is any object/organism parts that come together to perform certain function.

Give examples of system:

- digestive system
- circulatory system
- respiratory system
- muscular system
- skeletal system

Give examples of human system:

- plant system
- computer system
- phone system

The Circulatory System

How blood flows in the Human system.

LUNGS

HEART

HEART

BODY PARTS

Oxygenated blood are blood rich in oxygen which will be transported to all body parts.
Deoxygenated blood are blood poor in oxygen which are taken away from body parts.

parts of a circulatory system.	function of the parts of the circulatory system
HEART	Pumps blood to all parts of the body.
BLOOD VESSELS	Carries food, oxygen, carbon dioxide and digested food.
BLOOD	Tubes that allow blood to flow through all of our parts in a body.

circuit tester

If material is a conductor of electricity, bulb will light up as current can pass through.

test here

Things to test:

- Paper clips
- Keys
- Pencils

Ways to CONSERVE ELECTRICITY

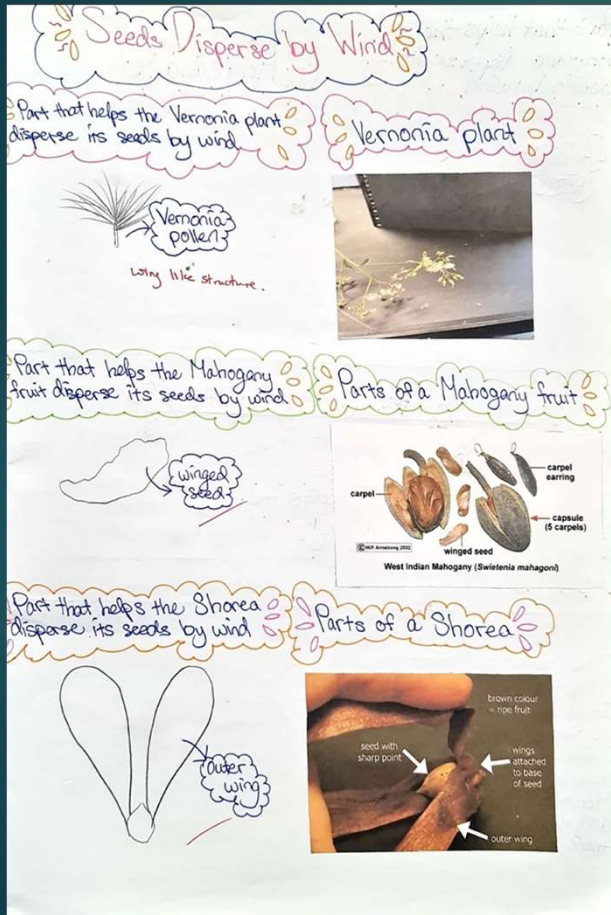
- Turn off all appliances after using the daytime

Electricity SAFETY

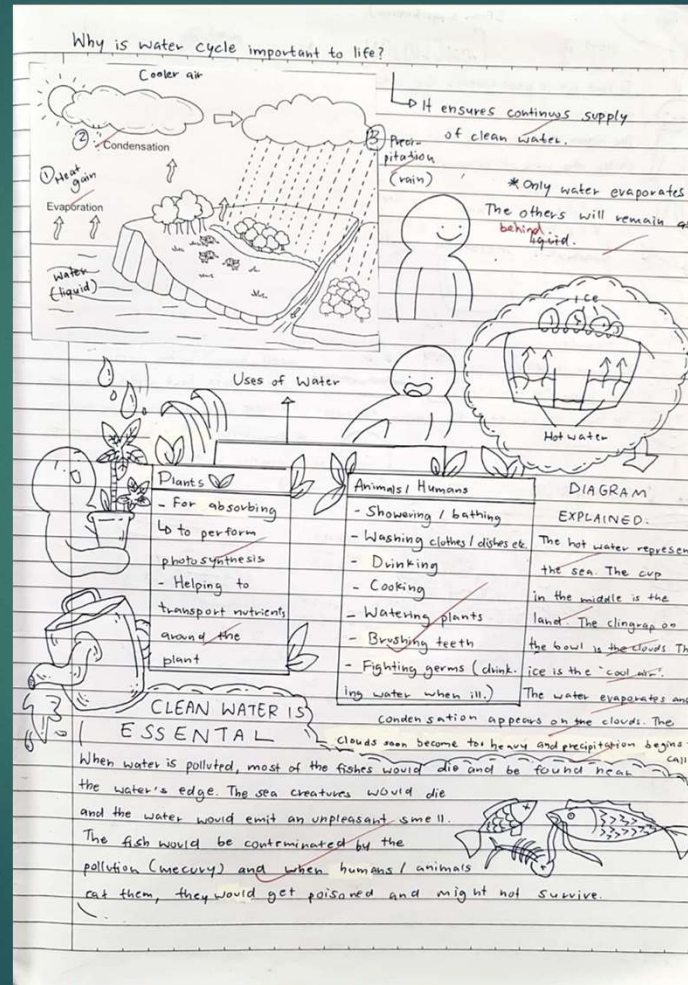
- Don't use electrical gadgets with wet hands
- Don't stick your hands in bare wire
- Don't plug many plugs in one power

Naomi Yi-Shan Lee

5 Graciousness 2021 – Best Entries



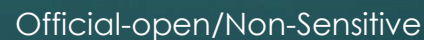
Patricia Chanel



Valerie Ip

Official-open/Non-Sensitive

Cheng Wing Yan, Cassandra



Thank you

