Science Sharing for Primary 3 and Primary 4 Parents

Follow us on Instagram!









6 February 2023

We seek your cooperation on the following:



No videography No photography



All slides will be made available on the school website at a later time.



At any time during the sharing, you can type your question using the chat function.











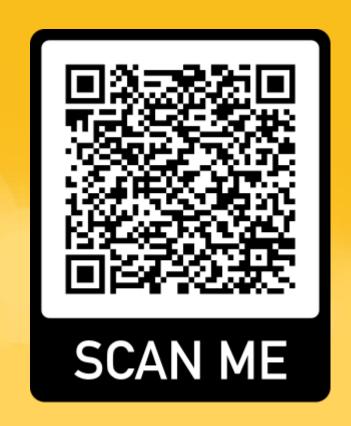
Coverage of Webinar

- ✓ Syllabus & Assessment
- Learning Science in Rivervale
- Science Programmes
- Science Answering & Learning Strategies
- Exploring Science





MOE 2023 Science Syllabus - current P3



SCIENCE TEACHING & LEARNING SYLLABUS Primary Three to Six

Implementation starting with 2023 Primary Three Cohort

Standard / Foundation

Updated October 2022

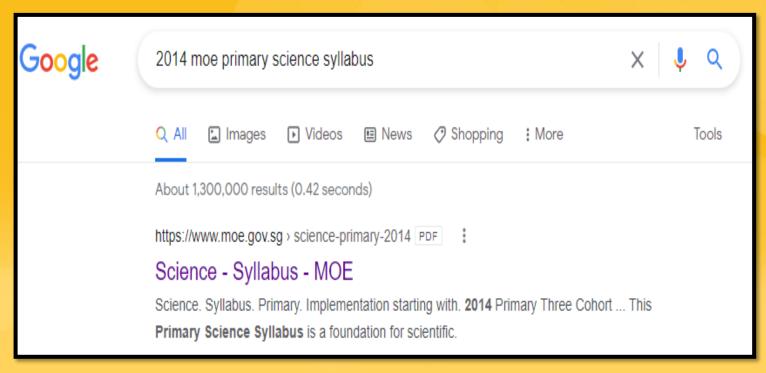






MOE 2014 Science Syllabus - current P4



















Science Curriculum Framework











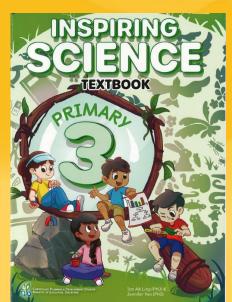


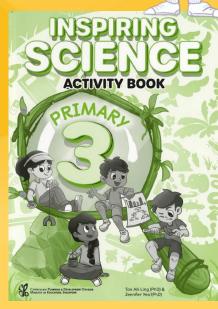




Primary 3 Syllabus

- Diversity
 - 1. Diversity of Living and Non-Living Things
 - 2. Classification of Living Things
 - 3. Diversity of Materials
- Cycles
 - 4. Life Cycles of Plants
 - 5. Life Cycles of Animals
- Interactions
 - 6. Properties of Magnets
 - 7. Making and Using Magnets











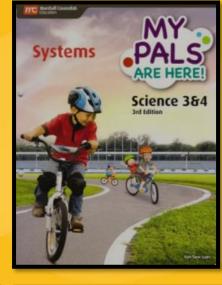


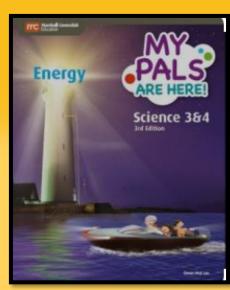


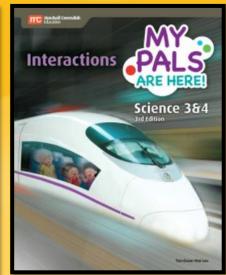


Primary 4 Syllabus

- Systems
 - 1. Human Body Systems Digestive system
 - 2. Plant System
- Energy
 - 3. Light and shadow
 - 4. Heat and temperature
- Interactions
 - 6. Magnets & their characteristics
 - 7. Making Magnets























Assessment Format

	P3/P4
Term 1	WA
Term 2	WA
Term 3	WA
Term 4	EYE















P3 End Year Examination Format

Booklet	No. of Questions	Marks
A Multiple Choice Questions	25	50
B Open-ended Questions	8 - 10	30



P4 End Year Examination Format

Booklet	No. of Questions	Marks
A Multiple Choice Questions	28	56
B Open-ended Questions	12 - 14	44



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- The 3C Pedagogical Framework
 - 1. Capture ideas and interest
 - 2. Construct understanding
 - 3. Consolidate learning



















1. Capture ideas and interest

K-W-L Chart

Topic: _____

wnat i K now	what i want to know	what i Learnea





2. Construct understanding





Textbook Page 7

the objects

Mobile phone

Pair/Group Work

Look at the objects. Classify them into groups.

Explain to your classmates how you have grouped

Colour pencils | computer mouse

Paper clips

Table lamp



Science Lab



Sparkle Kit







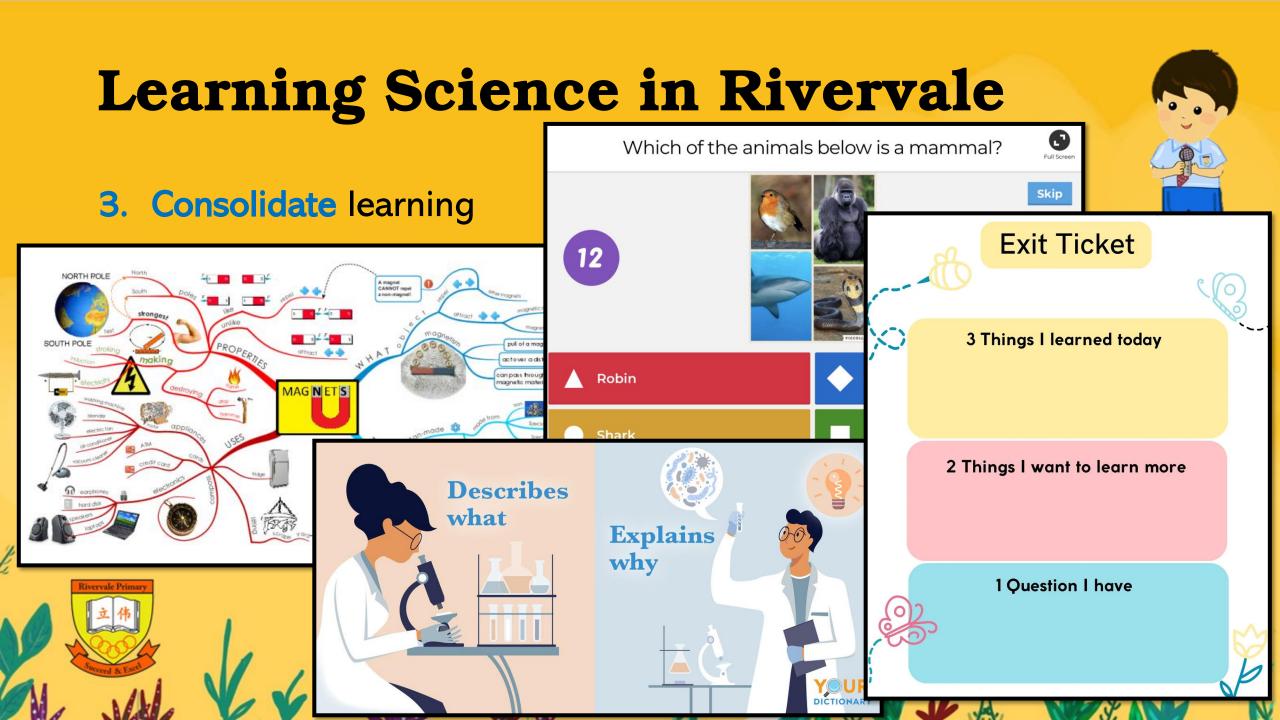












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Science Programmes: Science Alive!

• With the aim to spark curiosity and interest in students, students get to be involved in activities that engage them hands-on.

 Students explore fields of Science that are beyond the textbooks!







Science Programmes: Recycling

 Our students learn how to recycle correctly and to manage plastic and waste.





















Science Programmes: Earth Hour & Environment Week













Science Programmes: Learning Journey

















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Science Answering Strategies: OIC

O – Observation

 What is seen or predicted to happen / what needs to be done to a particular experimental set-up to achieve its objective

I – Interpretation

Tying in of concepts and how it relates to phenomenon

C – Conclusion

Explaining or predicting what will happen

















Science Answering Strategies: Applying OIC

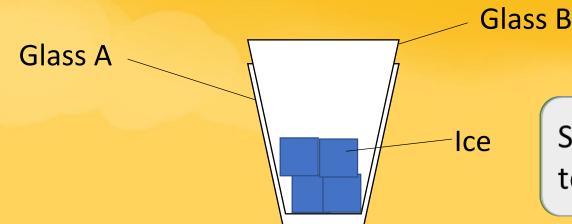
Glass A and Glass B are stuck together as shown below.

Sandra added ice into Glass B to help separate the 2 glasses.

Explain how the glasses are able to separate when she added the ice into the cup.

Topic: Heat

Concept:
Heat transfers
from hotter to
colder region.
When objects
lose heat, they
contract.



Step 3: Analyse. Link concept to situation. Use OIC Model







Science Answering Strategies: Applying OIC

Explain how the glasses are able to separate when she added the ice into the cup.

Glass B

Glass A

Ice

Observe (O): For the cup to be separate, Glass B needs to contract.

Interpret (I): Since the Glass B is hotter than the ice, Glass B would lose heat to the ice and the glass would contract.

Conclusion (C): The glasses could be separated as Glass B contracts and becomes smaller.

Ctudent Dle Angue



Student A's Answer	Student B's Answer
Glass B becomes smaller so	Glass B loses heat to the ice, contracts and becomes
it can be separated.	smaller. Thus, it can be separated from glass A.

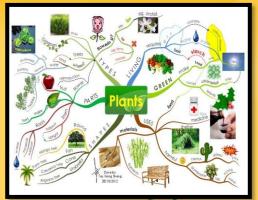
Science Learning Strategies:

- To recall key concepts / ideas
 - Mnemonics
 - Mind maps





















Science Learning Strategies: Mnemonics examples

Seeds need

Warmth

Oxygen / Air

Water

to germinate

Plants need

Sunlight

Air

Water

to make food























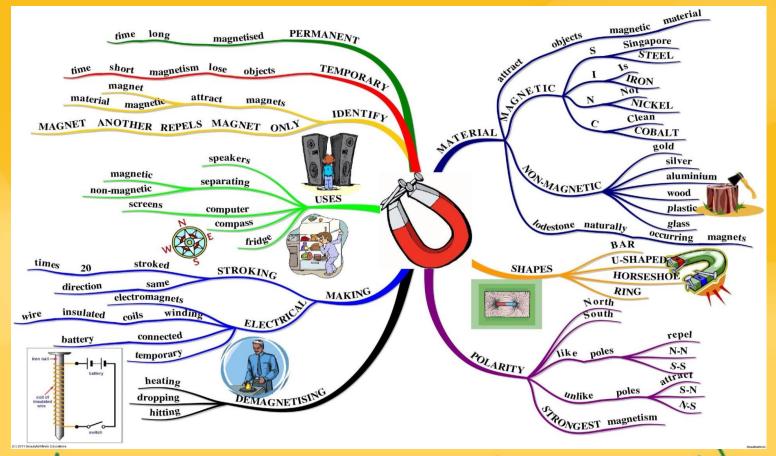




Science Learning Strategies: Mindmap

- Help students recall previous knowledge and identify areas with misconceptions or that have been forgotten
- Help students to understand and retain latest knowledge
- Connect prior knowledge with new knowledge
- Identify things that students have forgotten or has not been able to make connections

Science Learning Strategies: Mindmap







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Exploring Science

- Newspapers
- National Geographic
- Animal Planet
- Discovery Channel























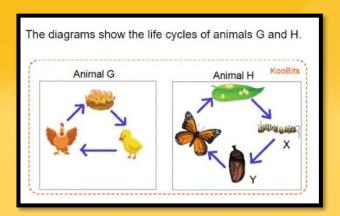


Exploring Science

- Young Scientist Magazines
- Simple experiments at home













Exploring Science

- P3 Every Child a Seed
- P4 Magnetic Kit

















School Science Website

• https://rivervalescience.wixsite.com/2020

























and we move on to the next sharing...