



Secondary 1 Subject Briefing

Science

A presentation by:
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SCIENCE



Ignite the love for learning and spirit of curiosity

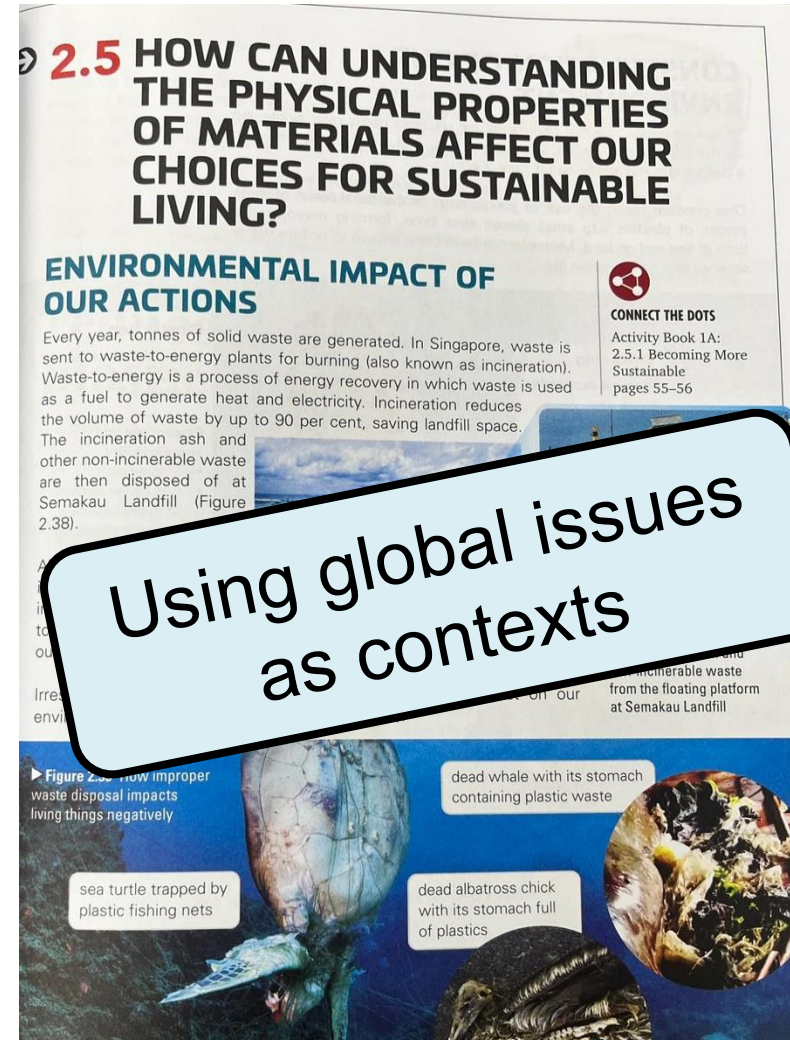
Help students see the relevance and value in the subject matter

Develop confidence and skills needed to pursue passion and career aspirations

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Thematic syllabus for Sec 1 and 2

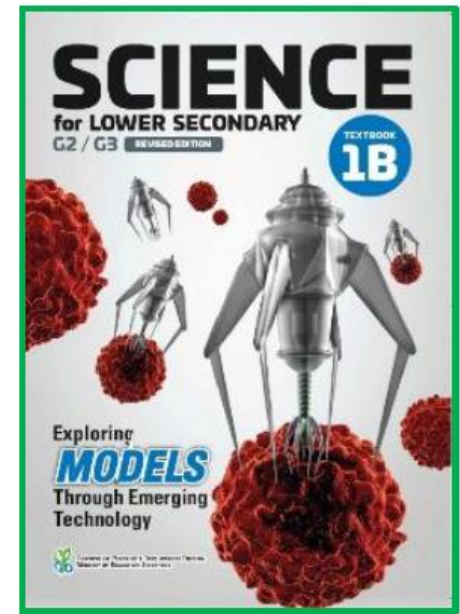
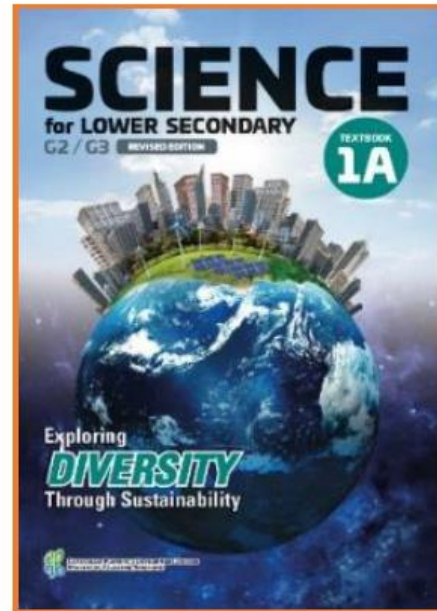
- Covers 3 main Science subjects (Physics, Chemistry and Biology)
- Connect and apply knowledge in Science to understand and solve real-world problems



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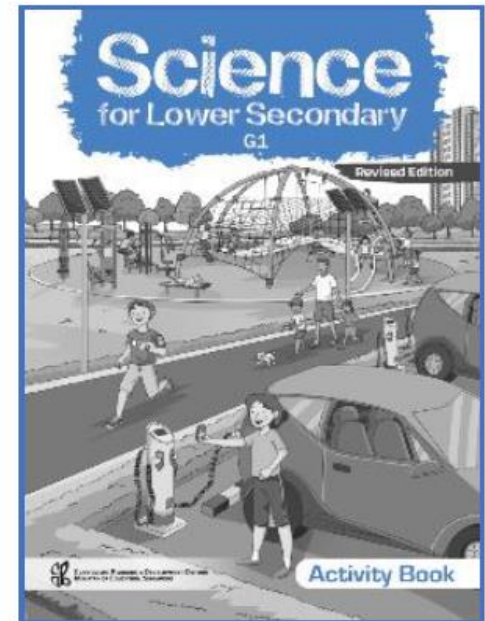
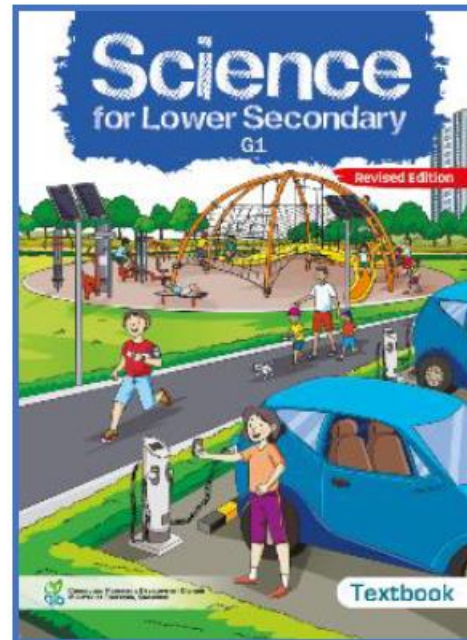
G2 & G3 Science

- 2 textbooks



G1 Science

- 1 textbook
- 1 activity book



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Integrative learning experience

G1	G2 & G3
Laboratory Measurements & Procedures	Diversity
Our Environment	Models
Our Body & Health	Systems
Machines Around Us	Interactions

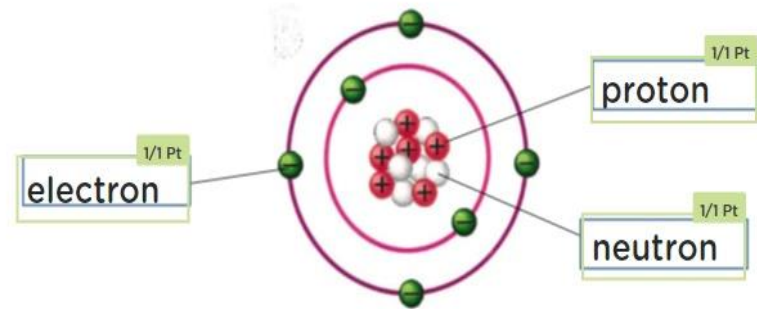
- Relevance to daily application; using authentic contexts
- Opportunities to apply scientific concepts and skills
- Develop Practices of Science through practical and hands-on activities

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Use of personal learning device (iPad)



2 Label the sub-atomic particles in the atom.



3 Fill in the blanks in the table below.

Element Symbol	Number of protons	Number of electrons	Number of neutrons
H	1	1	0
Al	13	13	14
Zn	30	30	35

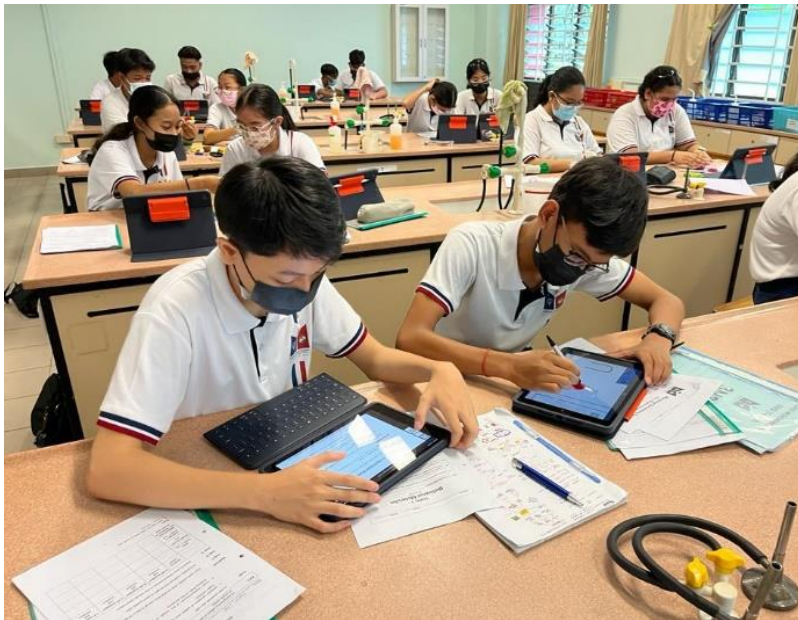
An atom is electrically neutral.

4 An atom is electrically neutral. Explain why.

Atoms are neutral as there is same number of protons and electrons.

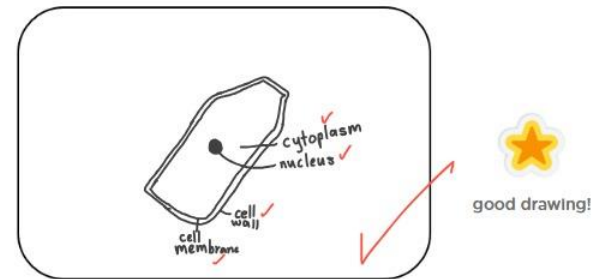
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Use of personal learning device (iPad)



Task 3: Draw an onion cell.




4 In the space below, **draw** and **label one** onion cell that you see on the screen.



5 Describe **one** difference between the onion cell and white blood cell.

A onion cell has a cell wall but a white blood cell does not have a cell wall.

Self-assessment Checklist

No.	Learning Target			
1	I am able to represent the animal cell in the form of drawing.		✓	
2	I am able to represent the plant cell in the form of drawing.	✓		
3	I understand that cells are the basic unit of living things.	✓		
4	I am able to identify and name the cell membrane, nucleus and cytoplasm in a typical animal cell.	✓		
5	I know that microscope is a tool that has made deeper study in the field of science possible.	✓		

let's practise more

😊

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Assessments

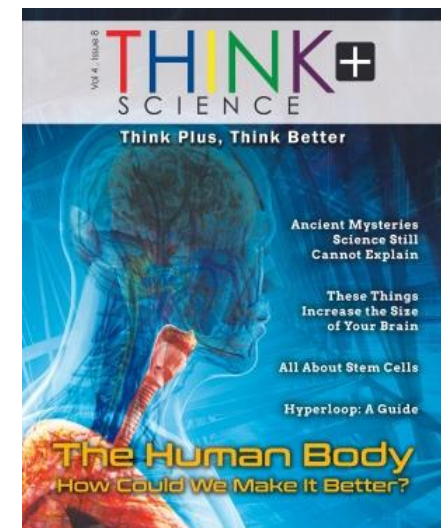
- 4 Weighted Assessments (WA)
 - 3 WA will be class tests
 - 1 WA will be on practical investigation
Applied learning in authentic contexts
- End-of-year Examination



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Sec 1 Signature Programmes

- Squid Dissection
- MSS Grow Your Greens
- Think+ Science Magazine
- Code for Fun
- Project Work (PW) lessons



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STEM (Sustainability)

Semester 1		Semester 2	
Science	Science	Project Work	Code for Fun [Post Exam]



Opportunities to apply STEM concepts learnt in the classroom to real-world situations and problem solving



A group of five school students, three girls and two boys, are standing on a green lawn in front of a modern building. They are all wearing dark blue school uniforms with red ties. The building behind them has a colorful mural on its wall. The text "Thank You" is overlaid in the center of the image.

Thank You

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