

Maths (Secondary): How does algebra appear in the world around me?

Lower-Order Thinking Questions

Higher Order Thinking Questions

Yes/No

Which

Who

When

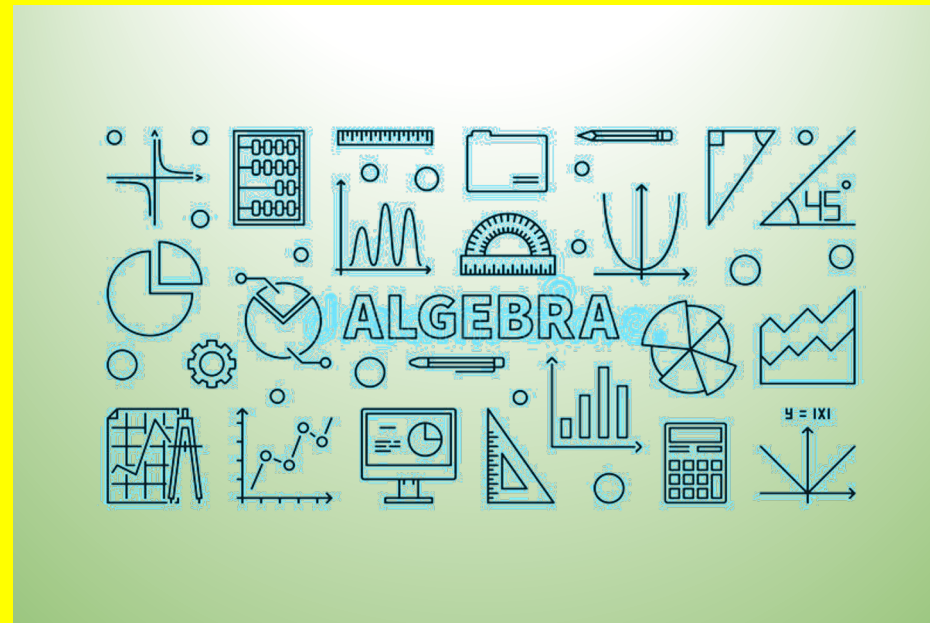
Where

What

How

Why

What if



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Does algebra have a function outside of the classroom?

- Directly linking the subject to its functionality in the real world
- Although a lower-level question, this immediately brings to light the usefulness of the subject

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Who invented algebra, for what purpose, and how did it ultimately affect sailors?

- Interdisciplinary connections (maths, history, social sciences)
- Multi-cultural referencing, reminding students of the interconnected world – past and present

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When would we more likely use algebra: when cooking or participating in sports?

Include a domestic and international sport in your answer.

- Processing knowledge of algebra and then analysing them in the context of cooking and playing different sports
- Multi-cultural referencing

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**What benefits could algebra have in your future?
(In business, technology, architecture, landscaping, aviation,
designer, etc.)**

- Becoming responsible for one's own trajectory,
- Becoming financially independent and managing one's life responsibly
- Interdisciplinary considerations

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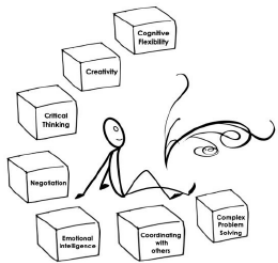
How would a lack of knowledge of algebra impact your qualifications in participating in a youth initiative to create a webpage dedicated to ‘Living Without Plastic’?

- Environmental awareness
- Global nterconnectness
- Interdisciplinary knowledge
- Awareness of skill sets and their applications

WHAT IF...
**The Comprehensive Guide to
Creating Phenomenon-Based
Learning Projects**

VOLUME 1

**Language Learning
vs.
Language Acquisition**



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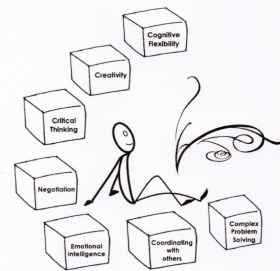
EMI, ESL, CLIL, EFL, ELT

scaffolding

WHAT IF...
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VOLUME 4

**Heuristics to Higher-Level Thinking:
Using DOK Tools in PhBL Projects**



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DOK
tools