

MINDSETS CURRICULUM

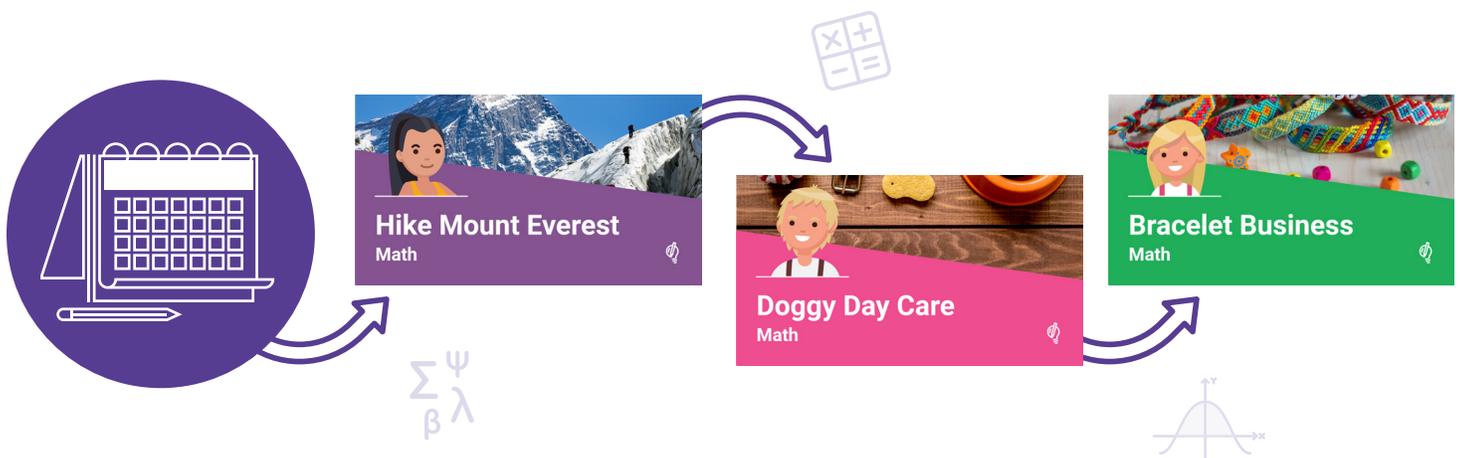
ALIGNED TO VICTORIAN CURRICULUM

**IB Unit of Inquiry- How we Organize Ourselves.
Earn & Learn Unit***

Mindsets Challenges is a modular curriculum for real-world problem-solving in Math & STEAM

April 2019- Version 2

* International Baccalaureate® (IB)



Teaching with the Mindsets Challenges

There are many ways to use Mindsets Challenges! Most Challenges takes around 45-60 minutes and can be completed in 1 to 2 class periods. Teachers have the flexibility to also use any of the grade-level Mindsets Challenges, together with their matching project based extension over a week or a month throughout the school year.

Here's how we suggest using Mindset Challenges:



1 class period

- 1 Challenge
- Supplement your existing lesson with real-world problems or hands-on, inquiry-based activities
- Focus on a mathematical or science standard



1-2 class periods

- 1 Challenge
- Break up student work into shorter time periods by asking students to log back into the Challenge
- Focus on a mathematical or science standard



Over 1 week

- Assign 1 Challenge in 1-2 class periods as an introduction or review of content standards
- After completing the Challenge, add on a project-based extension
- Using the project-based extension, students can take time over multiple classes to develop their skills



Over 1 month

- 1-2 Challenges per week with a focus on adding project-based extensions
- Challenges are aligned to high-frequency standards and can be used as an introduction or as reinforcement during a lesson or review
- Use project-based extensions to assess students and support high-achieving learners



Over the school year

- 1-2 Challenges per month
- Follow the Suggested Sequence calendar (contact us to create a custom one for your school)
- Incorporate project-based extensions as the school schedule allows or use to differentiate for enrichment programs

Unit of Inquiry. How We Organise Ourselves - Earn & Learn:

Week 1

Fractions and decimals



You're a party planner hired by a local high school to plan their graduation party. Keep track of money spent and stay within budget!

Number and Algebra | VCMNA214

Week 2

Money and financial mathematics

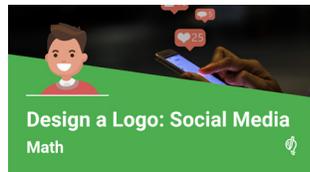


Choose a career and see what salary you'll earn each month. We'll learn how your career choice affects what you decide to spend and buy!

Number and Algebra | VCMNA191

Week 3

Location and transformation



You're a new graphic designer, and you've got a brilliant idea. If Facebook were to re-brand, it would earn back consumer trust. So you've decided to create & share a new logo for this world-famous company!

Measurement and Geometry | VCMMG229

Week 4

Money and financial mathematics



This summer, you've bought a make your own sundae bar! You'll calculate costs of ice cream, delicious toppings and supplies to determine a profit.

Number and Algebra | VCMNA278

Week 5

Real numbers



You're on the move: making \$\$ and walking furry four-legged friends. You'll set a financial goal and determine how many puppies and their pals you need to walk to reach that goal.

Number and Algebra | VCMNA277

Week 6 & 7

Patterns and algebra



Your school will be hosting an upcoming International Art Fair! Create and design special patterned bands for sale using a basic design.

Number and Algebra | VCMNA253

Week 8

Real numbers



You're a producer for the exciting TV show, The Amazing Race: Teen Edition. You're in charge of booking flights, converting \$\$ and then choosing a city for final competition.

Number and Algebra | VCMNA276

Week 9

Real numbers



Spotify is hosting a school concert and needs help selecting concert T-shirts to sell! Which will be the most popular in your class?

Number and Algebra | VCMNA249

Week 10

Number and place value



You're raising money to save African Elephants. Use inequalities to work out the value of the gifts and help save the elephants!

Number and Algebra | VCMNA241

Check out [Mindsets Challenges Library](#) to see the full Mindsets Challenges list