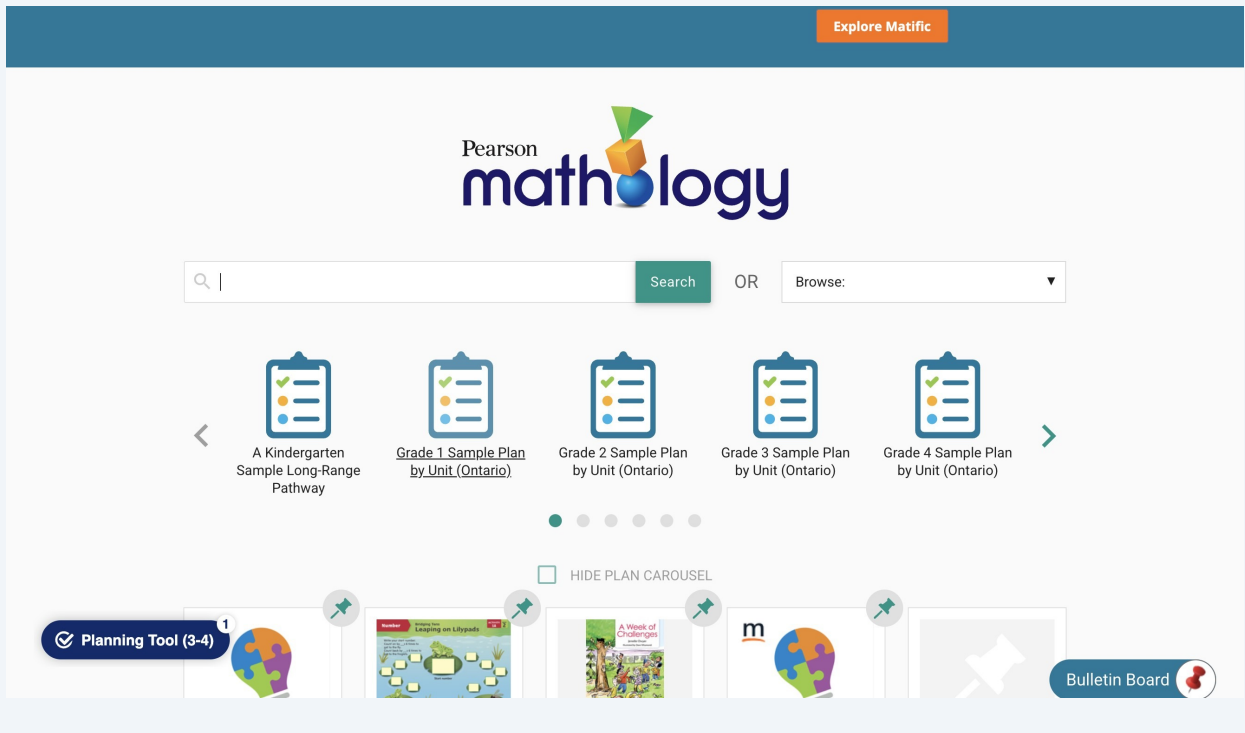


Teaching-Using Lessons-About Tab

Learn how to navigate Mathology's Sample Plans to find the About page for lessons. This guide shows you how to find detailed information about the content background and curriculum expectations.

1 Navigate to <https://etr.mathology.ca/#main>



2 Click a Sample Plan


3 Click a unit

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<i>Patterning & Algebra: Investigating Repeating Patterns (Sept.)</i>	
	Midnight and Snowfall Two crayons worry that children won't use them. When they see some interesting patterns, they start to have hope! Midnight and Snowfall offers children opportunities to describe and compare repeating patterns in nature describe and compare repeating... TAGS: <i>Grade 1 Little Book Patterning</i>
	Midnight and Snowfall: Teacher Guide Two crayons worry that children won't use them. When they see some interesting patterns, they start to have hope! Midnight and Snowfall offers children opportunities to describe and compare repeating patterns in nature describe and compare repeating... TAGS: <i>Grade 1 Little Book Patterning</i>
	1 Investigating Repeating Patterns: Repeating the Core (Ontario) This activity focuses on identifying...


4 Click a lesson

Patterning & Algebra: Creating Patterns (Sept.)	0/6	>
Number: Counting (Oct.)	0/7	
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patterns, they start to have hope! Midnight and Snowfall offers children opportunities to describe and compare repeating patterns in nature describe and compare repeating...


TAGS: [Grade 1](#) [Little Book](#) [Patterning](#)



Midnight and Snowfall: Teacher Guide

Two crayons worry that children won't use them. When they see some interesting patterns, they start to have hope! Midnight and Snowfall offers children opportunities to describe and compare repeating patterns in nature describe and compare repeating...


TAGS: [Grade 1](#) [Little Book](#) [Patterning](#)



6 Creating Patterns: Extending Patterns (Ontario)

This activity focuses on extending repeating patterns. To start, students find repeating patterns in the classroom and extend them. In pairs, students identify and describe repeating patterns with different attributes changing: colour, shape, size, and...


TAGS: [Grade 1](#) [Activity](#) [Patterning-6](#)




7 Creating Patterns: Translating Patterns (Ontario)

This activity focuses on translating repeating patterns in a variety of ways. To start, the class is shown a few patterns with the same letter core, and students discuss how the patterns are alike and how they are different.

5 Click "About"



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6 Creating Patterns: Extending Patterns (Ontario)

♡

ABOUT
LESSON
ASSESSMENT
DIFFERENTIATED...
PRACTICE

About this lesson

This activity focuses on extending repeating patterns. To start, students find repeating patterns in the classroom and extend them.

ACTIVITY TIME	45-50 min
GROUP SIZE	Pairs

In pairs, students identify and describe repeating patterns with different attributes changing: colour, shape, size, and number. Students use the core of each pattern to extend it. To consolidate, students share the strategies they used to extend the patterns, and discuss how all the patterns they used are alike and how they are different.


TAGS: [Grade 1](#) [Activity](#) [Patterning-6](#)

Content Background ▾


Focus

Extending repeating patterns

Professional Learning



Learning Highlights: Extending Patterns



Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

6 Click "Content Background" to find additional information

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each pattern to extend it. To consolidate, students share the strategies they used to extend the patterns, and discuss how all the patterns they used are alike and how they are different.

TAGS: Grade 1 Activity **Patterning-6**

Content Background ▾

Focus

Extending repeating patterns

Curriculum

C. Algebra

C1. Patterns and Relationships: identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

- Patterns: C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns

Cross-Strand Connections ▾

Processes/Competencies

Professional Learning

Learning Highlights: Extending Patterns

Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

7 See the curriculum from your province

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identifying the core of a repeating pattern

Focus

Extending repeating patterns

Curriculum

C. Algebra

C1. Patterns and Relationships: identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

- Patterns: C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns

Cross-Strand Connections ▾

Processes/Competencies

CONNECTING REPRESENTING COMMUNICATING PROBLEM SOLVING

Professional Learning

Learning Highlights: Extending Patterns

Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

8 See the Learning Progression. Blue is where the lesson is focused.

C1. Patterns and Relationships. Identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

- Patterns: C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns

Cross-Strand Connections ▾

Processes/Competencies

CONNECTING REPRESENTING COMMUNICATING PROBLEM SOLVING

Learning Progression

BIG IDEA: K–3 Regularity and repetition form patterns that can be generalized and predicted mathematically.

Conceptual Thread: Identifying, Reproducing, Extending, and Creating Patterns That Repeat

Predicts missing element(s) and corrects errors in repeating patterns.	Reproduces, creates, and extends repeating patterns based on copies of the repeating unit (core).	Represents the same pattern in different ways (i.e., translating to different symbols, objects, sounds, actions, coding instructions).
--	--	--

Recognizes similarities and differences between patterns.

Planning Tool (3-4)

Professional Learning

Learning Highlights: Extending Patterns

Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

9 Click "keyboard_arrow_right" to find further skills

Cross-Strand Connections ▾

Processes/Competencies

CONNECTING REPRESENTING COMMUNICATING PROBLEM SOLVING

Learning Progression

BIG IDEA: K–3 Regularity and repetition form patterns that can be generalized and predicted mathematically.

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Professional Learning

Learning Highlights: Extending Patterns

Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

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Click "keyboard_arrow_left" to see previous skills

Patterns: C.1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns

Cross-Strand Connections ▾

Processes/Competencies

- CONNECTING
- REPRESENTING
- COMMUNICATING
- PROBLEM SOLVING

Learning Progression

BIG IDEA: K-3 Regularity and repetition form patterns that can be generalized and predicted mathematically.

Conceptual Thread: Identifying, Reproducing, Extending, and Creating Patterns That Repeat

Reproduces, creates, and extends repeating patterns based on copies of the repeating unit (core).

Represents the same pattern in different ways (i.e., translating to different symbols, objects, sounds, actions, coding instructions).

Compares repeating patterns and describes how they are alike and different.

Planning Tool (3-4)



Learning Highlights: Extending Patterns



Learning Connections: Patterning & Algebra - Repeating, Increasing, Decreasing

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