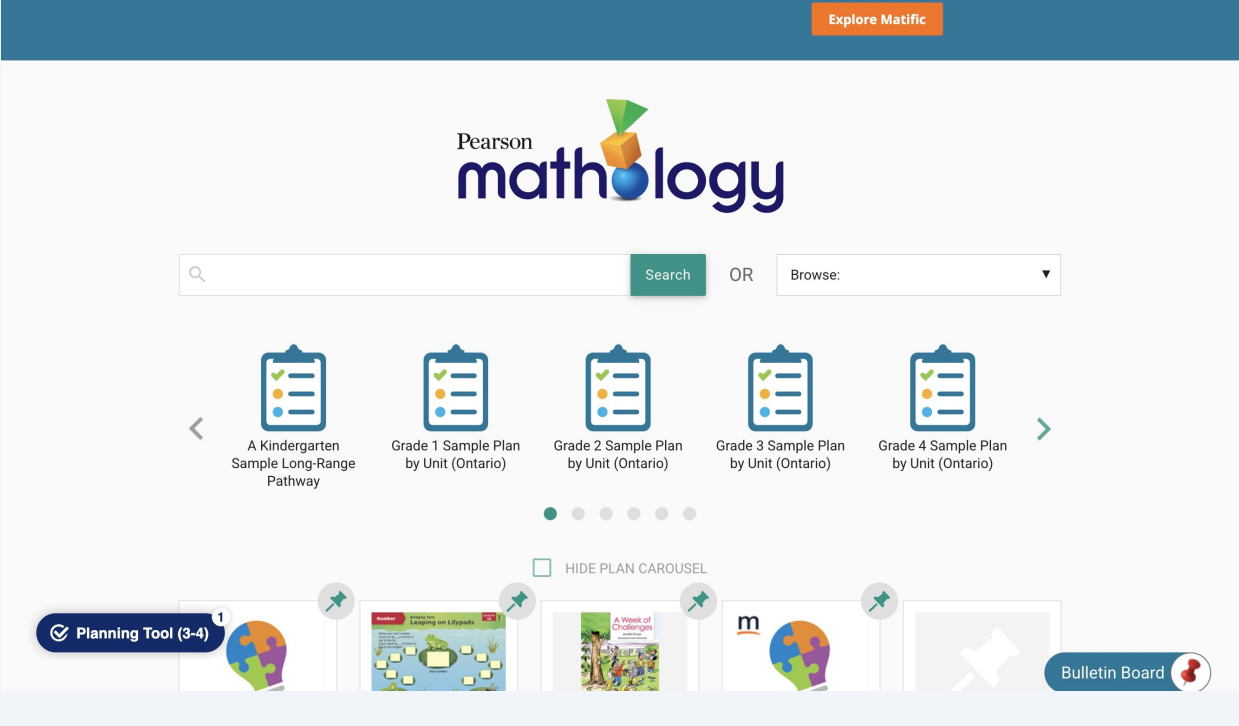


Teaching-Lessons-Using Powerpoints (Gr4-9)

This guide shows you how to access and download a Powerpoint from Mathology. It's perfect for educators looking for curriculum-aligned resources to share with students.

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



2 Click "keyboard_arrow_right" to find a grade plan. Powerpoints are in grades 4-9

Pearson **mathology**

Search OR Browse: ▾

< A Kindergarten Sample Long-Range Pathway Grade 1 Sample Plan by Unit (Ontario) Grade 2 Sample Plan by Unit (Ontario) Grade 3 Sample Plan by Unit (Ontario) **Grade 4 Sample Plan by Unit (Ontario)** >

● ● ● ● ● ● ● ●

HIDE PLAN CAROUSEL

Planning Tool (3-4)

Algebraic Expressions: Mathematical

Counting: Bridging Tens (Ontario)

A Week of Challenges: Teacher Guide

Number Relationships and Place Value:

Bulletin Board

3 Click a sample plan

Pearson **mathology**

Search OR Browse: ▾

< Grade 1 Sample Plan by Unit (Ontario) Grade 2 Sample Plan by Unit (Ontario) Grade 3 Sample Plan by Unit (Ontario) Grade 4 Sample Plan by Unit (Ontario) **Grade 5 Sample Plan by Unit (Ontario)** >

● ● ● ● ● ● ● ●

HIDE PLAN CAROUSEL

Planning Tool (3-4)

Algebraic Expressions: Mathematical

Counting: Bridging Tens (Ontario)

A Week of Challenges: Teacher Guide

Number Relationships and Place Value:

Bulletin Board

4 Click a unit

mathology Search... Home Favourites Plan Analytics Matific Dashboard Help on@mathology.ca on@mathology.ca


← Grade 5 Sample Plan by Unit (Ontario) Use Sample Plan

Section 1: Plan Contents

Interactive Math Tools	0/1	>
Number: Number Relationships and Place Value (Sept)	0/5	
Patterning & Algebra: Patterning (Sept)	0/5	
Number: Fluency with Addition and Subtraction (Oct)	0/5	
Number: Fractions and Decimals (Oct)	0/10	
Measurement: Mass, Capacity and Volume (Nov)	0/7	
Number: Fluency with Multiplication and Division (Nov)	0/8	
Patterning & Algebra: Variables and Equations (Jan)	0/7	

Section 2: Lessons & Resources

Interactive Math Tools




Interactive Math Tools: Grades 5-8 FAVOURITE

5 Click a lesson

Interactive Math Tools	0/1	
Number: Number Relationships and Place Value (Sept)	0/5	>
Patterning & Algebra: Patterning (Sept)	0/5	
Number: Fluency with Addition and Subtraction (Oct)	0/5	
Number: Fractions and Decimals (Oct)	0/10	
Measurement: Mass, Capacity and Volume (Nov)	0/7	
Number: Fluency with Multiplication and Division (Nov)	0/8	
Data Unit: Data (Nov)	0/8	
Planning Tool (3-4)	0/8	
Patterning & Algebra: Variables and Equations (Jan)	0/7	


Number: Number Relationships and Place Value (Sept)



Number: Readiness Task: Number Relationships and Place Value FAVOURITE

For students to have a strong sense of the magnitude of numbers and how numbers relate, they must recognize that smaller numbers are contained within larger numbers. Students' development of place-value understanding begins with the bundling of quantities...


TAGS: *Grade 5* *Readiness Task* *Number-1*



Number Relationships and Place Value: Representing Larger Numbers FAVOURITE

In pairs, students use the context of numbers of moose in Newfoundland to represent 5- and 6-digit numbers in place-value charts, expanded form, and words. To consolidate, students discuss ways to read and represent 6-digit numbers, and use another form...

TAGS: *Grade 5* *Activity* *Number-1*



Number Relationships and Place Value: Comparing Larger Numbers FAVOURITE

In pairs, students compare and order the maximum seating at 5 sports stadiums and show their thinking using various tools (e.g., place-value charts and number lines). To consolidate, students discuss strategies for comparing and ordering whole numbers...

6 Click "Lesson" tab

The screenshot shows the Mathology website interface. At the top, there is a navigation bar with the Mathology logo, a search bar, and links for Home, Favourites, Plan, Analytics, Matific Dashboard, and Help. The user's email address is displayed as on@mathology.ca. Below the navigation bar, the page title is "Number Relationships and Place Value: Representing Larger Numbers". A blue header contains a back arrow and a heart icon. Below the header, there are five tabs: ABOUT, LESSON (highlighted with an orange circle), ASSESSMENT, NEXT STEPS, and PRACTICE. The main content area is titled "About this lesson" and contains the following text:

In pairs, students use the context of numbers of moose in Newfoundland to represent 5- and 6-digit numbers in place-value charts, expanded form, and words.

To consolidate, students discuss ways to read and represent 6-digit numbers, and use another form of expanded notation to represent these numbers.

TAGS: [Grade 5](#) [Activity](#) [Number-1](#)

Content Background ▼

Focus

Lesson Focus: Representing 6-digit numbers in a variety of ways

Additional Focus: Describing place-value patterns and relationships in whole numbers

On the right side of the page, there is a vertical sidebar labeled "Professional Learning".

7 Click the image of the powerpoint. You can download to your computer or share lesson slides through teams or google classroom.

The screenshot shows a lesson plan page for "Number Relationships & Place Value: Representing Larger Numbers". The page is divided into several sections:

positions and therefore have different values (e.g., 3000, 300, 30, and 3, respectively).

Write a 4-digit number in a place-value chart (e.g., 8723). Discuss the meaning of each place value. Relate the digits to their value (e.g., 8 has a value of 8000).

Together, read the number aloud ("eight thousand seven hundred twenty-three") and write it in expanded form, $8000 + 700 + 20 + 3$. Discuss what this number might represent (number of people in a small city).

Working on It (20–30 min)

For Part A, give each pair a number line and a place-value chart. Refer to your provincial curriculum. If representing 6-digit numbers is required, have students complete Part B.

Highlight for Students

- The position of a digit in a number tells its value.
- Each place-value position is 10 times as great as its position to the right (e.g., 100 000 is $10 \times 10\,000$).

WHAT TO LOOK FOR

- Do students describe the place value of each digit and the quantity it represents (e.g., in the number 123 456, the digit 2 represents $2 \times 10\,000 = 20\,000$)?

At the bottom left, there is a "Planning Tool (3-4)" button. In the center, there is a thumbnail image of a PowerPoint slide titled "Part A: Representing Numbers to 100 000". The slide contains the following text:

Part A: Representing Numbers to 100 000

In 1904, 4 moose were brought to Newfoundland from New Brunswick. By 1975, there were 72 469 moose in Newfoundland.

- Represent the population of moose in 1975:
 - in words
 - on a place-value chart
 - on a number line
 - in expanded form

The slide also includes a "Math Mat 8" and "Math Mat 22" button. At the bottom of the slide, there is a copyright notice: "© 2022 Pearson Canada Inc. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without prior written permission from Pearson Education Canada Inc. mathology.com"

On the right side of the page, there is a vertical sidebar labeled "Professional Learning".

8

Click "(PDF)" in the material section to download a pdf copy of the powerpoint for yourself or your students.

The screenshot shows a lesson page with a blue header containing a back arrow, the title 'Number Relationships and Place Value: Representing Larger Numbers', and icons for a printer and a heart. Below the header is a navigation bar with tabs for 'ABOUT', 'LESSON' (highlighted), 'ASSESSMENT', 'NEXT STEPS', and 'PRACTICE'. The main content area is divided into sections: 'Number' (with a red arrow icon), 'Materials' (listing various PDF and WORD resources), 'INSTRUCTIONS' (with a 'Before (5-10 min)' section), and 'CONSOLIDATION'. A 'Planning Tool (3-4)' button is located on the left. A vertical sidebar on the right edge contains the text 'Professional Learning' and a back arrow. A red box in the top right of the materials section indicates 'LESSON 1' and 'GRADE 5'. An orange circle highlights the 'Lesson Slides (PDF) (PowerPoint)' link in the materials list.

Number Relationships and Place Value
Representing Larger Numbers

ABOUT LESSON ASSESSMENT NEXT STEPS PRACTICE

Number

Materials

LESSON 1 GRADE 5

- Math Mat 8: Place-Value Chart (Comparing) (PDF) (WORD)
- Math Mat 22: Open Number Lines (PDF) (WORD)
- Master 1: Place-Value Chart to Hundred Thousands (PDF) (WORD)
- Master 2: Open Number Line (PDF) (WORD)
- Master 3: Place-Value Relationships (PDF) (WORD)
- Master 4: Spin, Roll, and Add! (PDF) (WORD)
- Master 5: Spin, Roll, and Subtract! (PDF) (WORD)
- Master 6: Graphing Place Value (PDF) (WORD)
- Practice (PDF) (WORD)
- Practice Answers (PDF) (WORD)
- Assessment (PDF) (WORD)
- Lesson Slides (PDF) (PowerPoint)

INSTRUCTIONS

Before (5-10 min)
Show these numbers:
13 286
61 328
86 132
28 613
Ask, "What do you notice?"
Discuss how the same digits take different

CONSOLIDATION

Have students share their representations of the numbers of moose.

Introduce another way to write a number in expanded form, e.g., 765 432 can be written as $(7 \times 100\,000) + (6 \times 10\,000) + (5 \times 1\,000) + (4 \times 100) + (3 \times 10) + (2 \times 1)$
Discuss with students how this form represents

Professional Learning

Planning Tool (3-4)