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Google Slides Lessons Preview

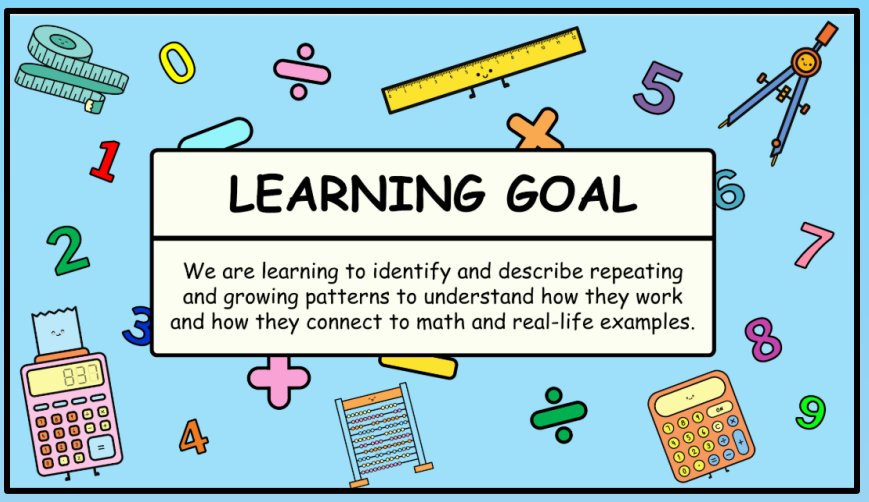
Ontario Math Curriculum

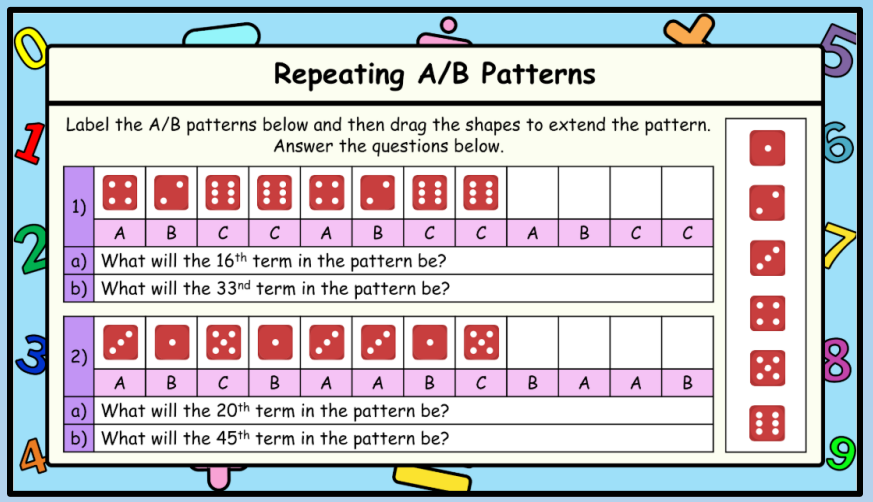
Algebra – Patterns, Equations – Grade 7

3-Part Lesson Format

Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!





Part 2 – Action!

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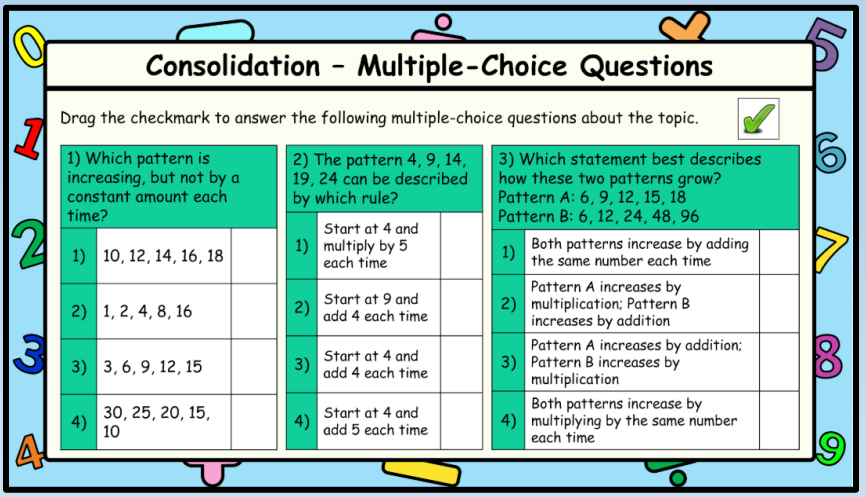
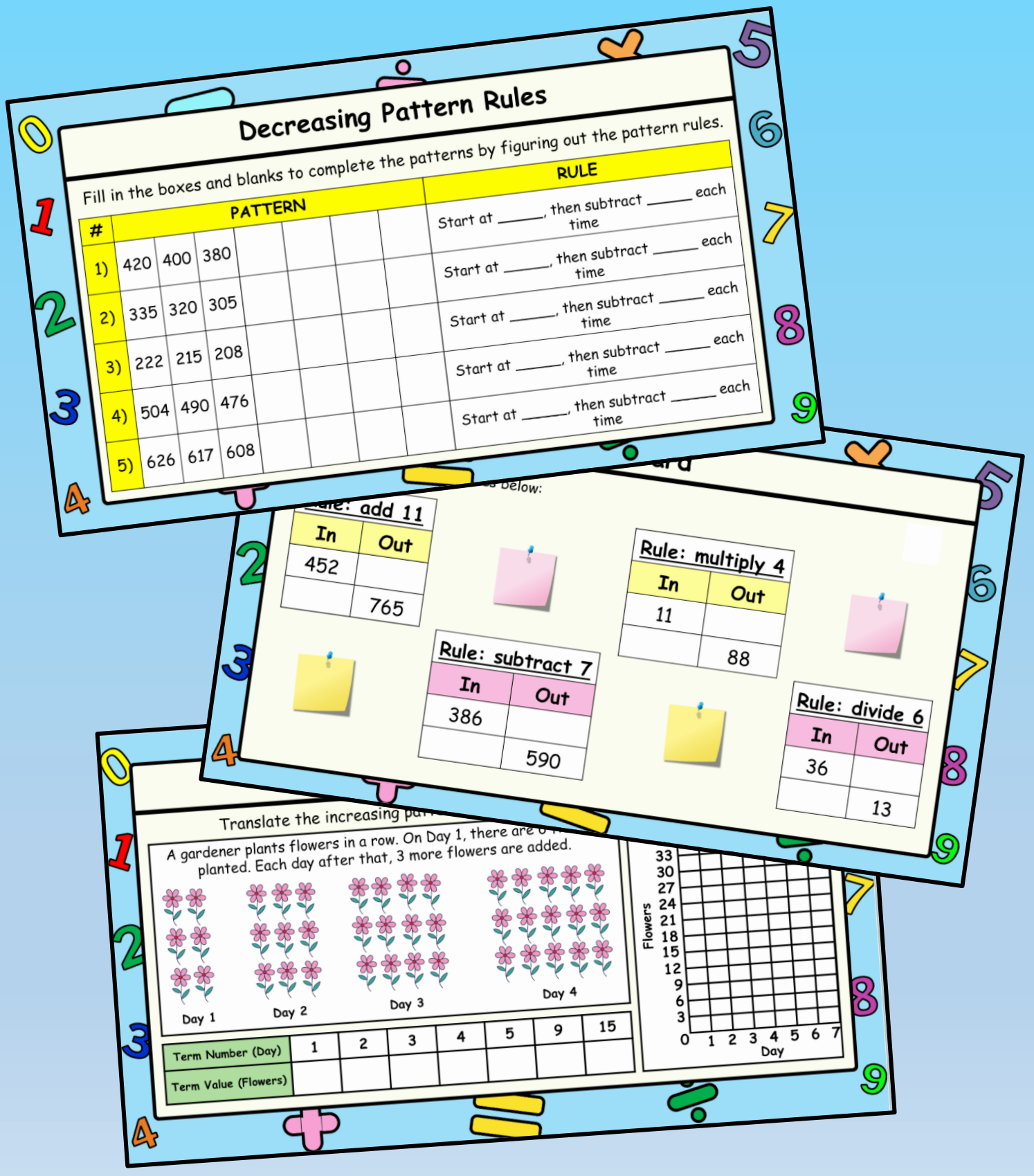


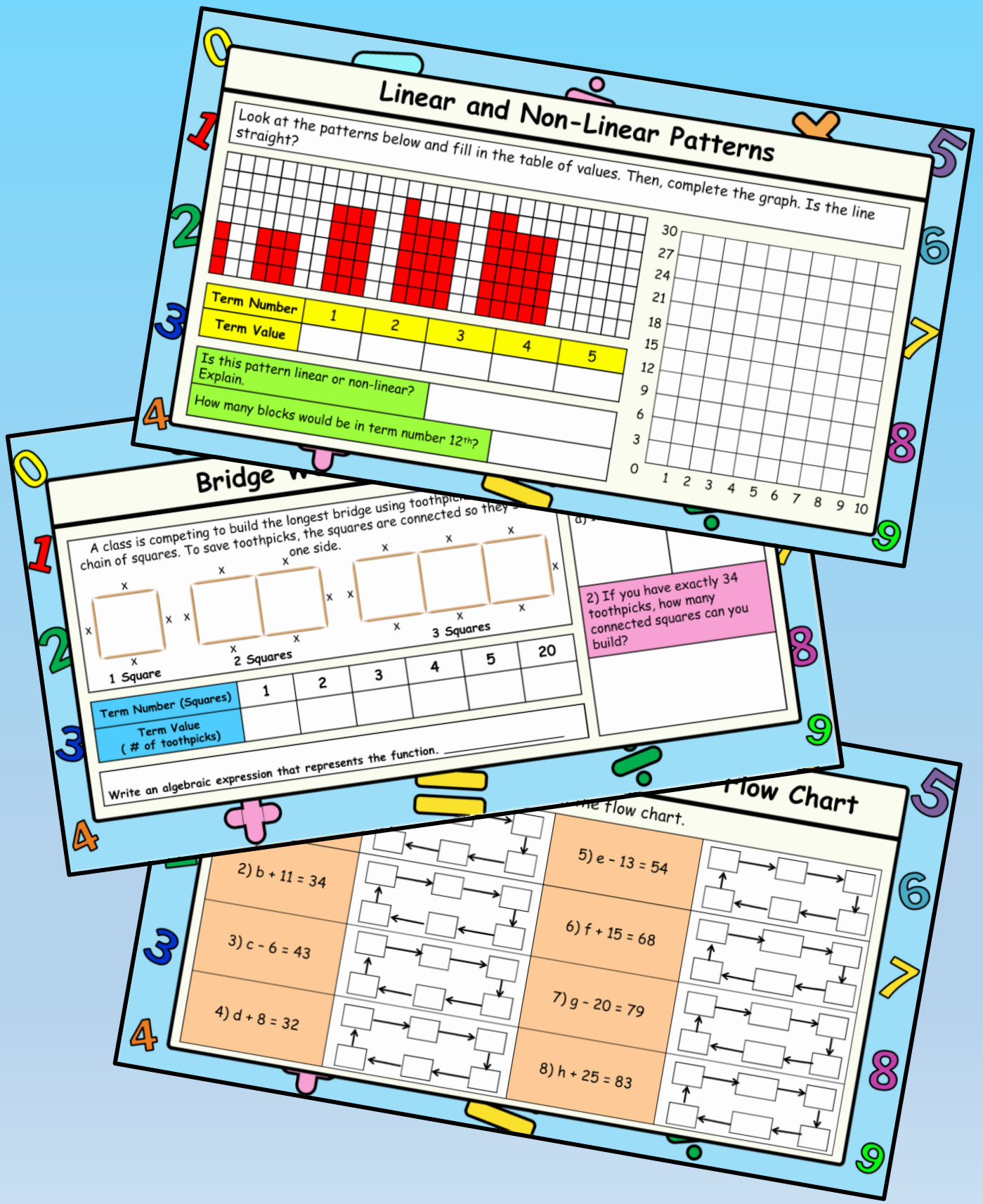
Ontario Math Curriculum

Algebra – Patterns, Equations – Grade 7



Ontario Math Curriculum

Algebra – Patterns, Equations – Grade 7



Google Slides Lessons Preview

Ontario Math Curriculum
Financial Literacy – Grade 7

3-Part Lesson Format

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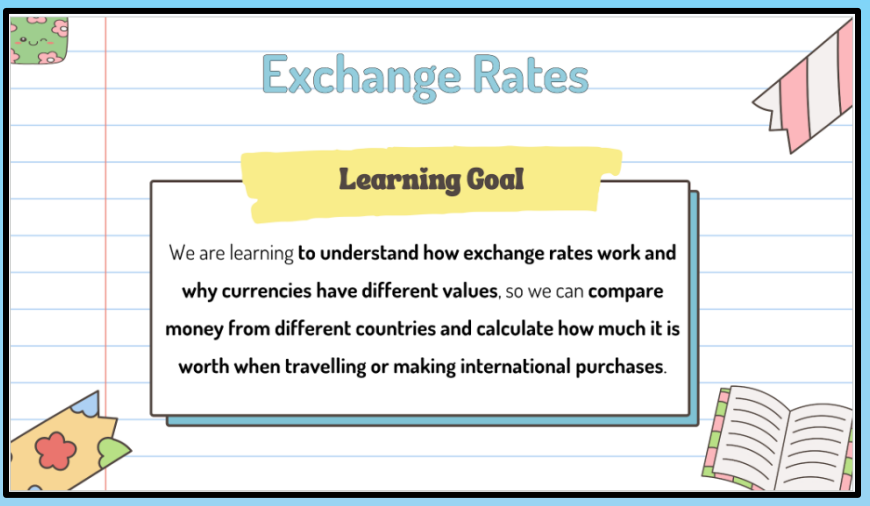
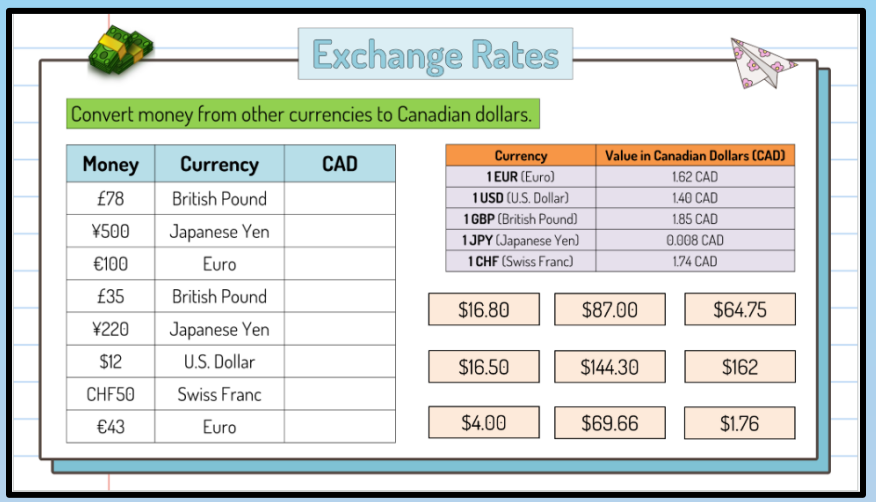
- Quotes
- And More!





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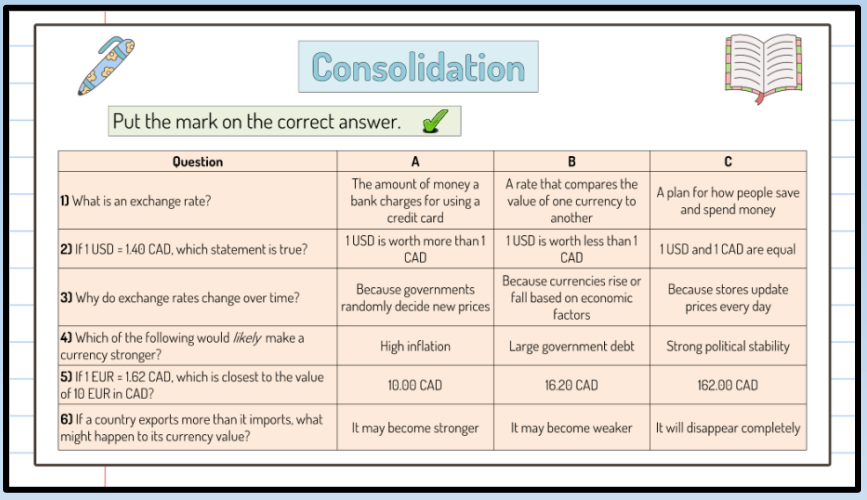
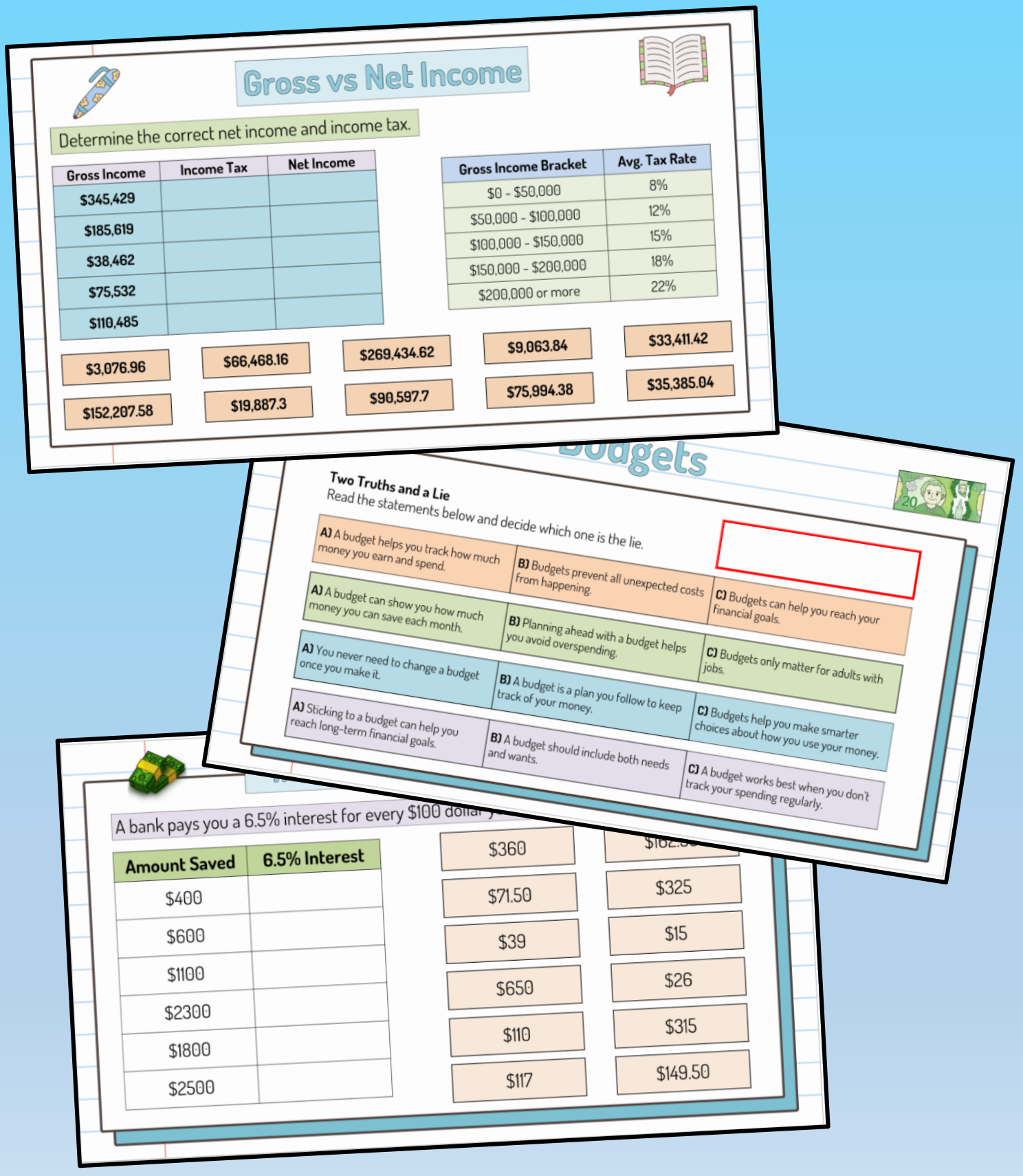
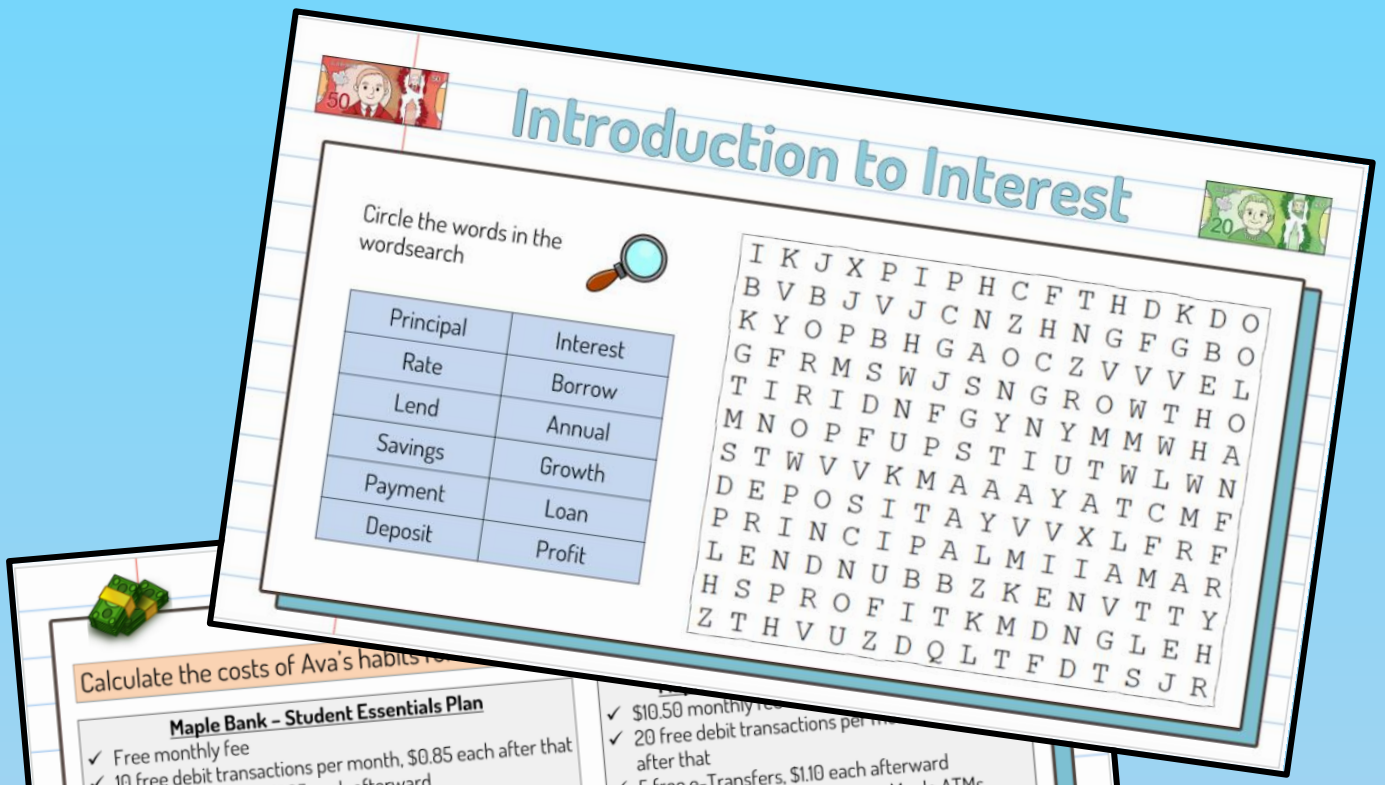
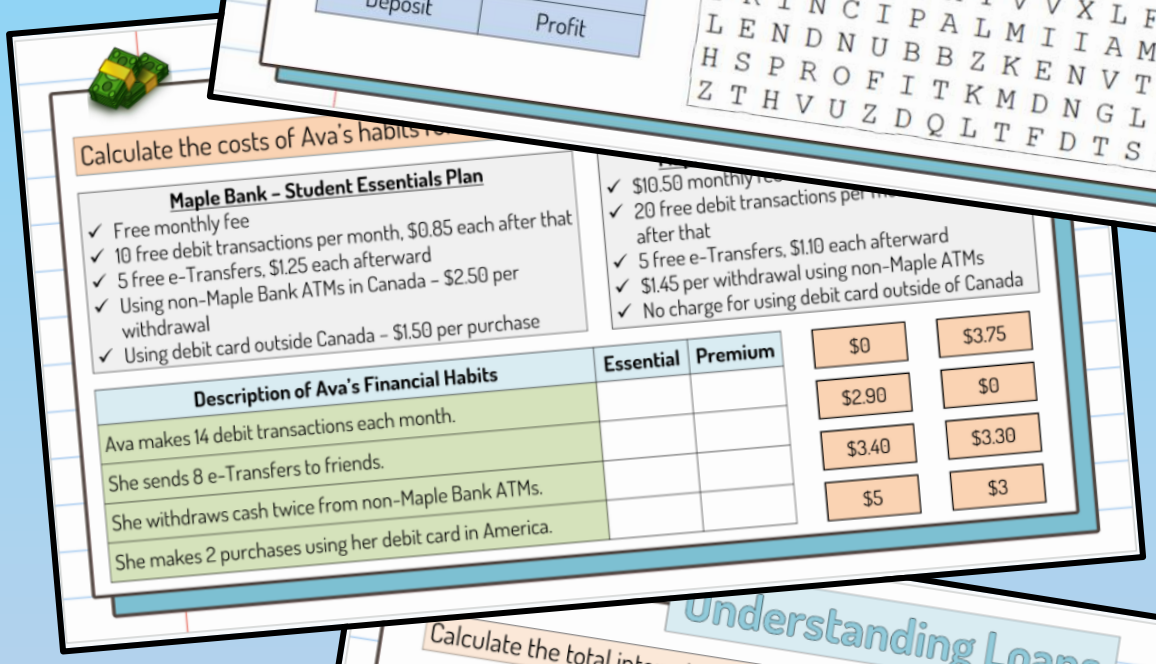


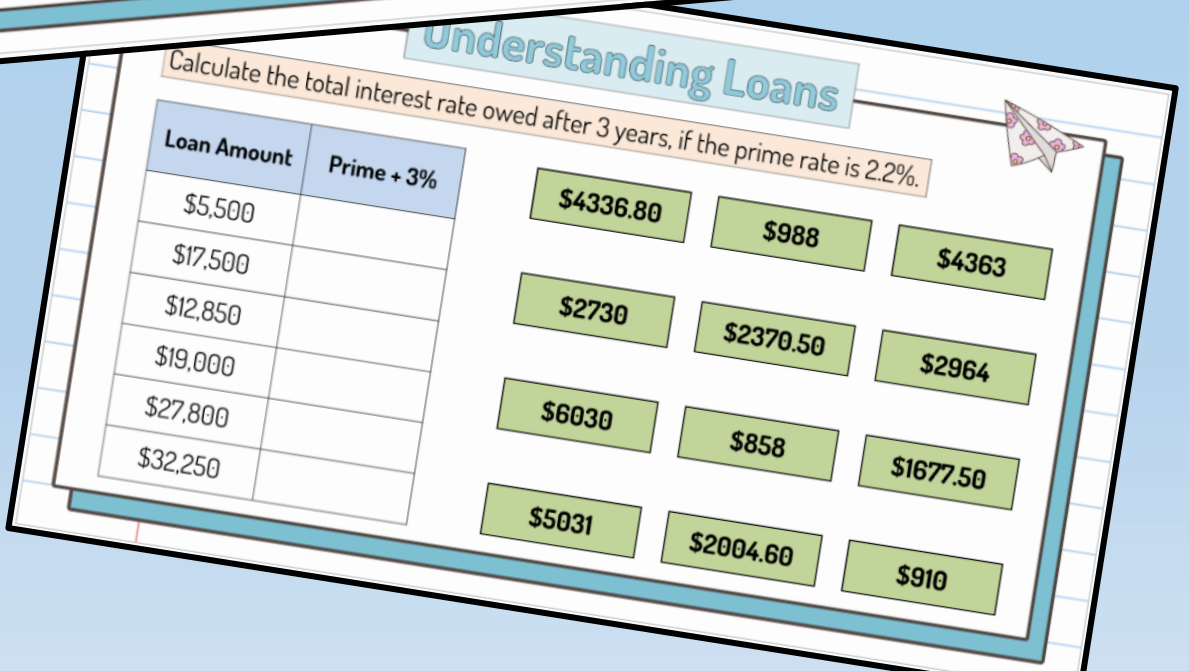
Ontario Math Curriculum
Financial Literacy – Grade 7



Ontario Math Curriculum
Financial Literacy – Grade 7







Google Slides Lessons Preview

Ontario Math Spatial Sense Unit – Grade 7

3-Part Lesson Format

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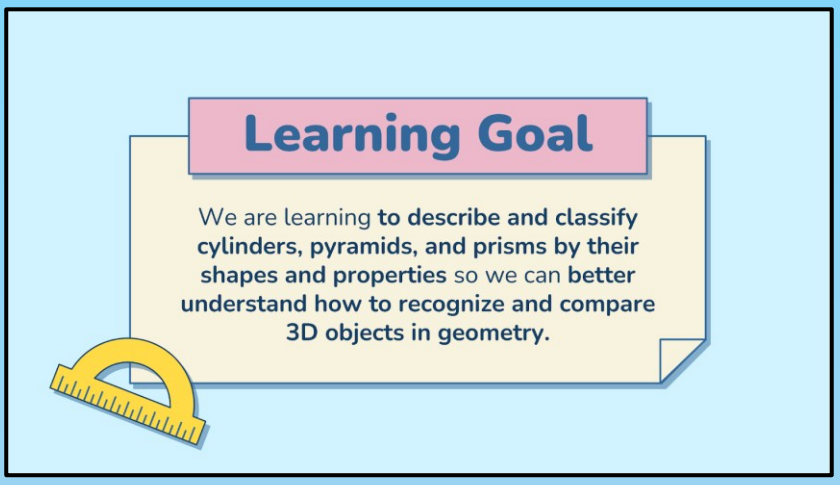
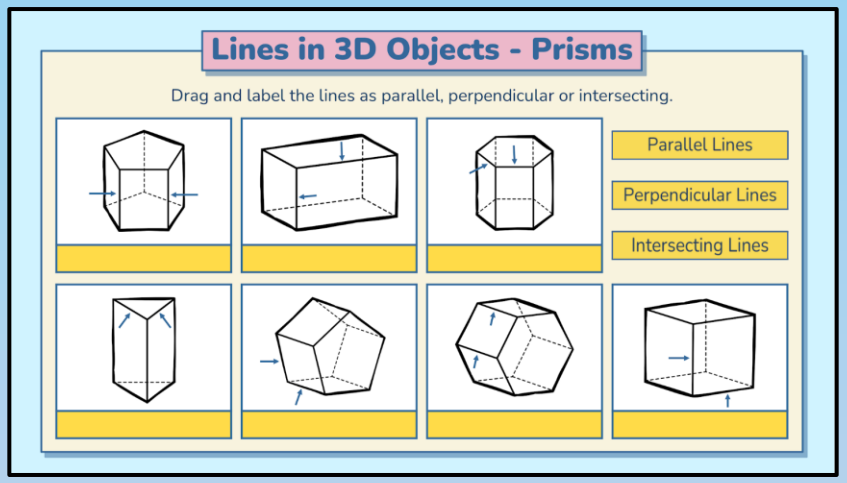
- Discussion Questions
- Why Math Is Important
- And More!





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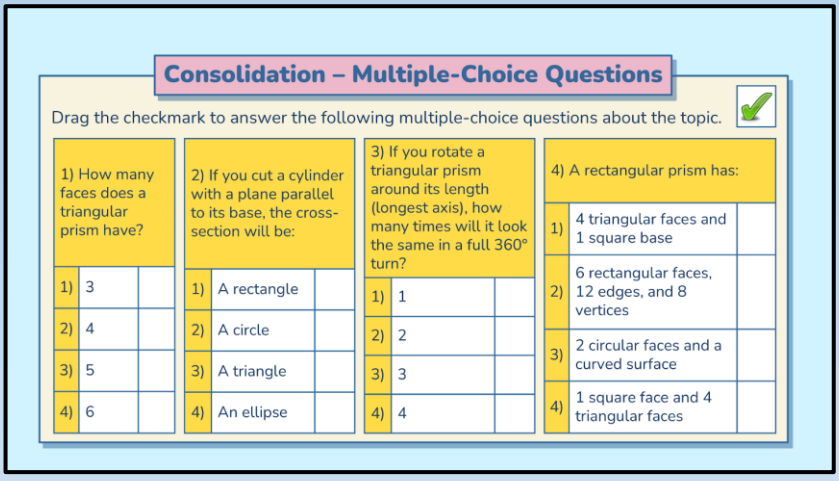
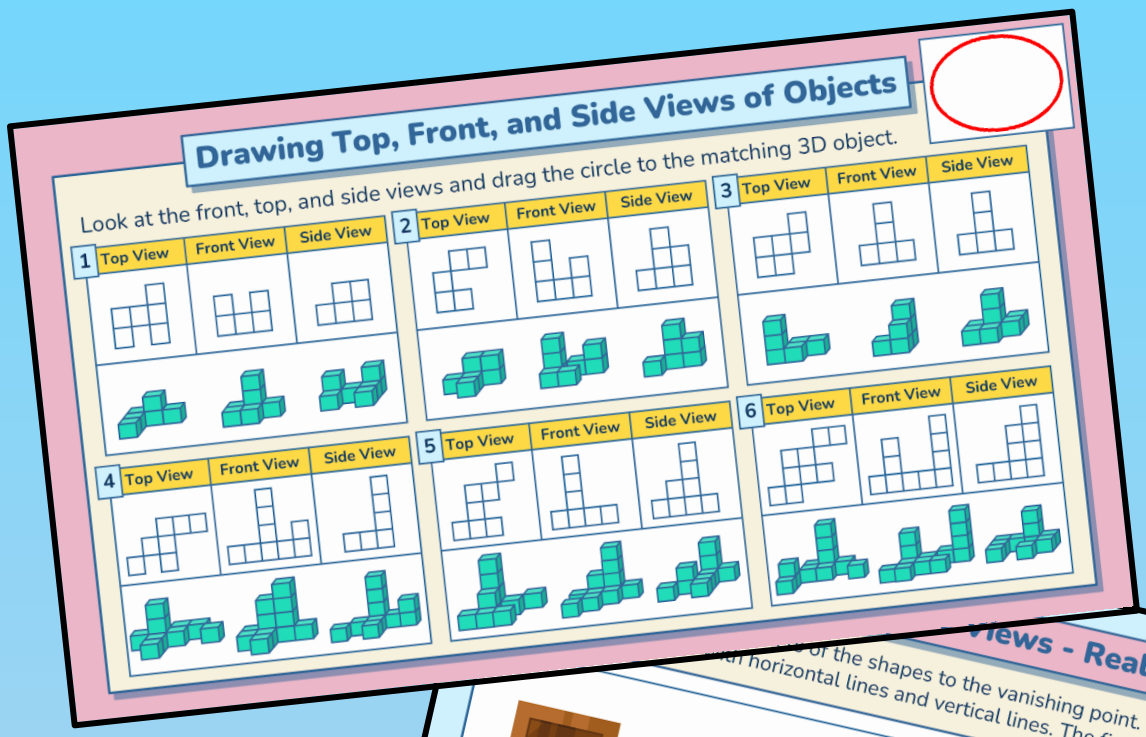
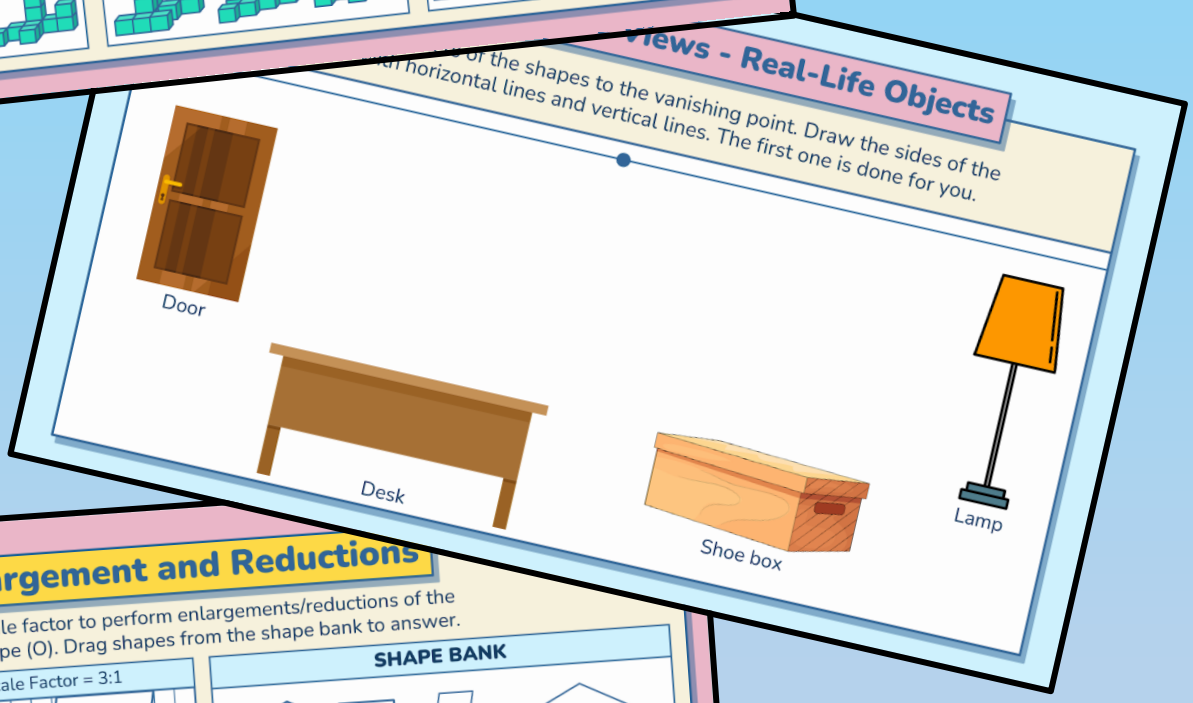
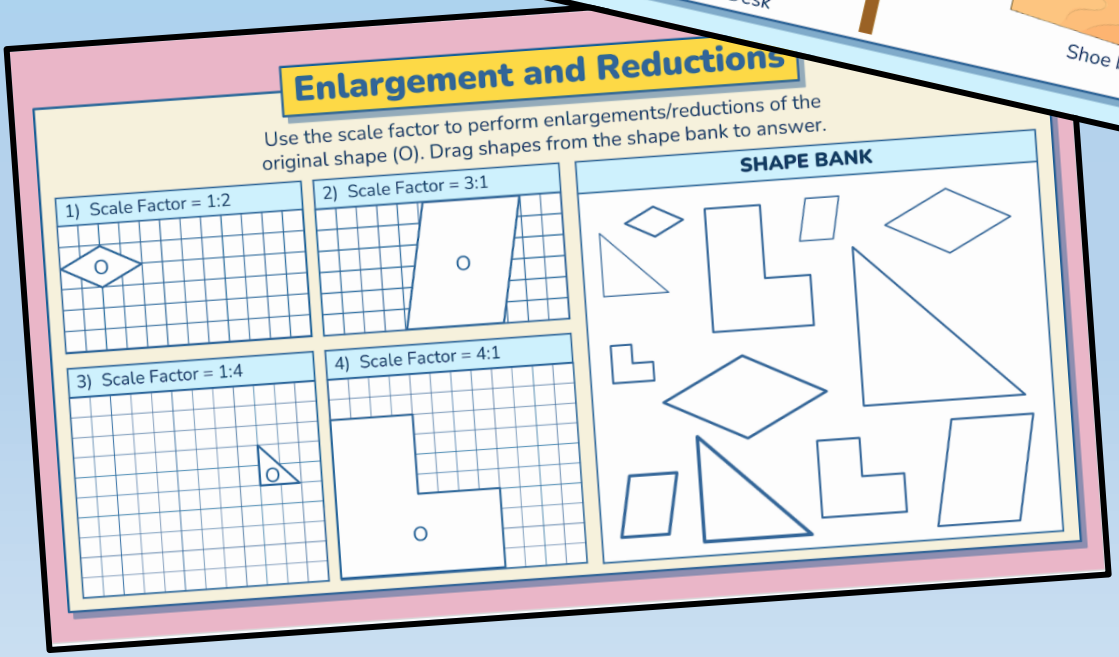
- Exit Cards
- Word Problems
- Quizzes
- Student Created Quizzes



Ontario Math
Spatial Sense Unit – Grade 7

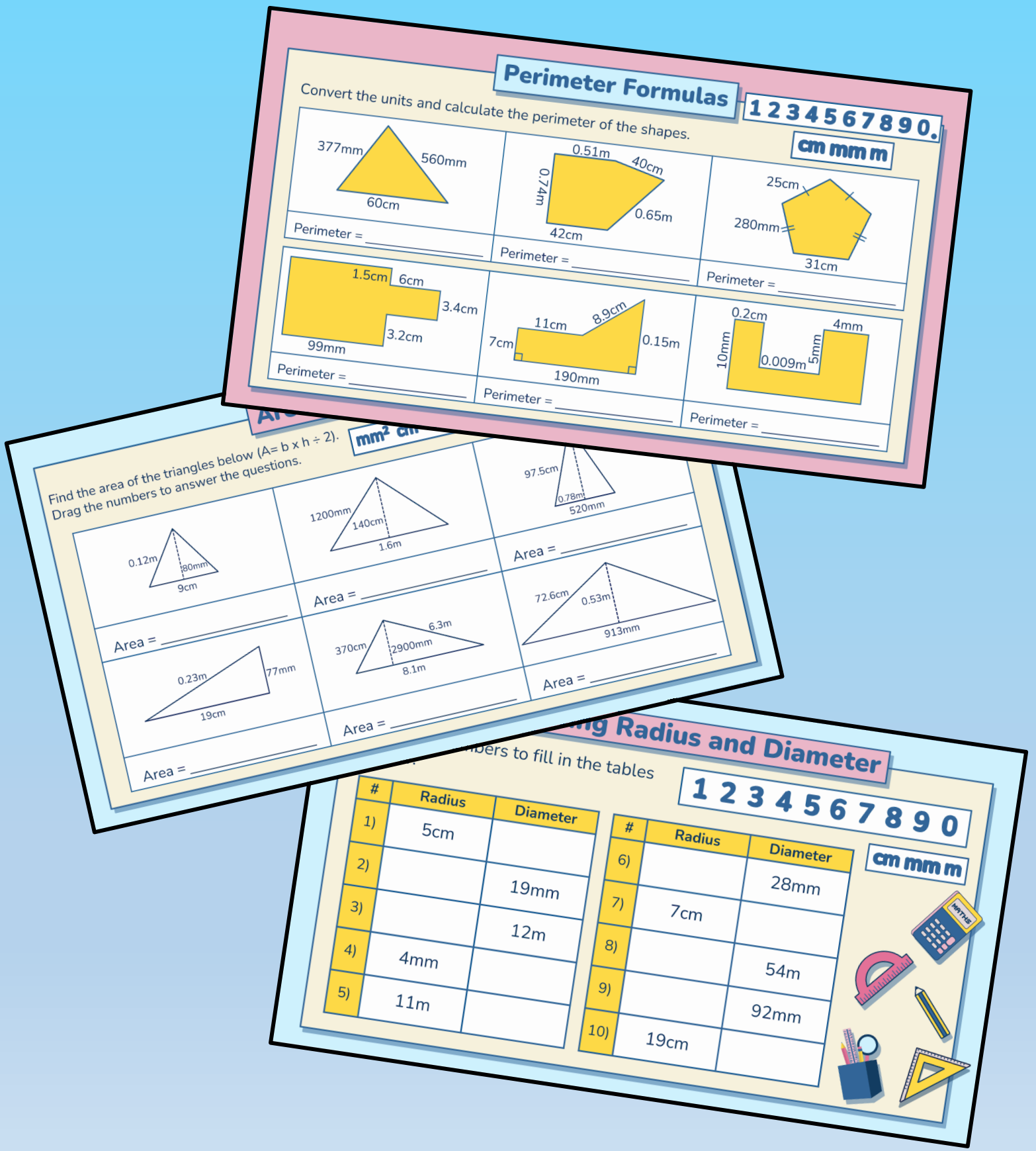






SUPER Simple SHEETS

Ontario Math
Spatial Sense Unit – Grade 7



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Ontario Math Number Unit – Grade 7

3-Part Lesson Format

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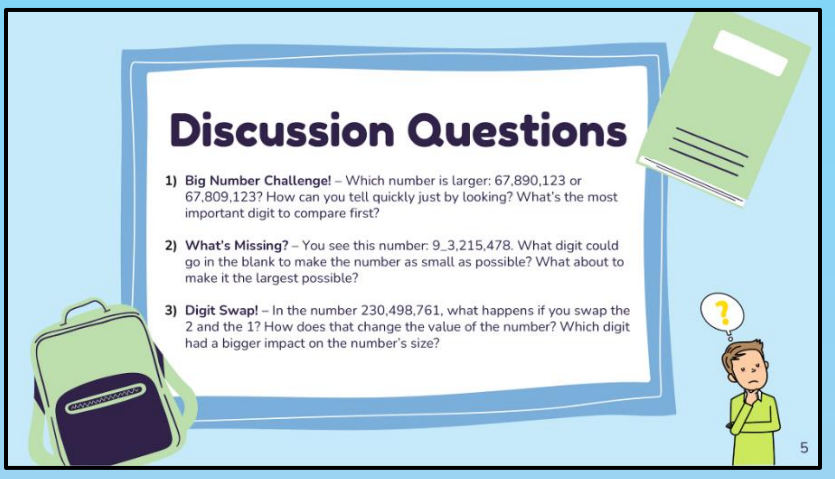
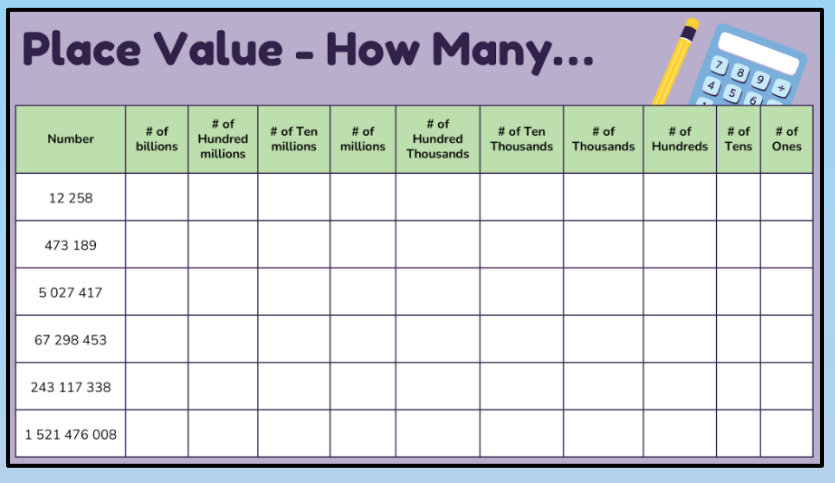
- Why Math is Important
- And More!





Number	# of billions	# of Hundred millions	# of Ten millions	# of millions	# of Hundred Thousands	# of Ten Thousands	# of Thousands	# of Hundreds	# of Tens	# of Ones
12 258										
473 189										
5 027 417										
67 298 453										
243 117 338										
1 521 476 008										

Part 2 – Action!

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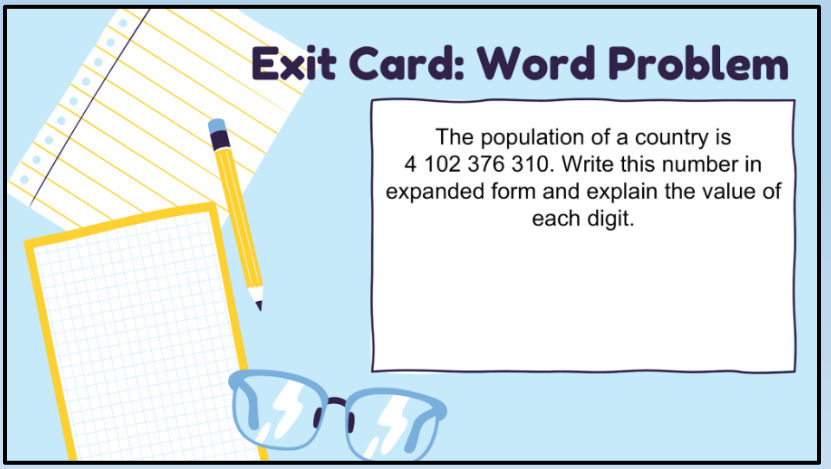
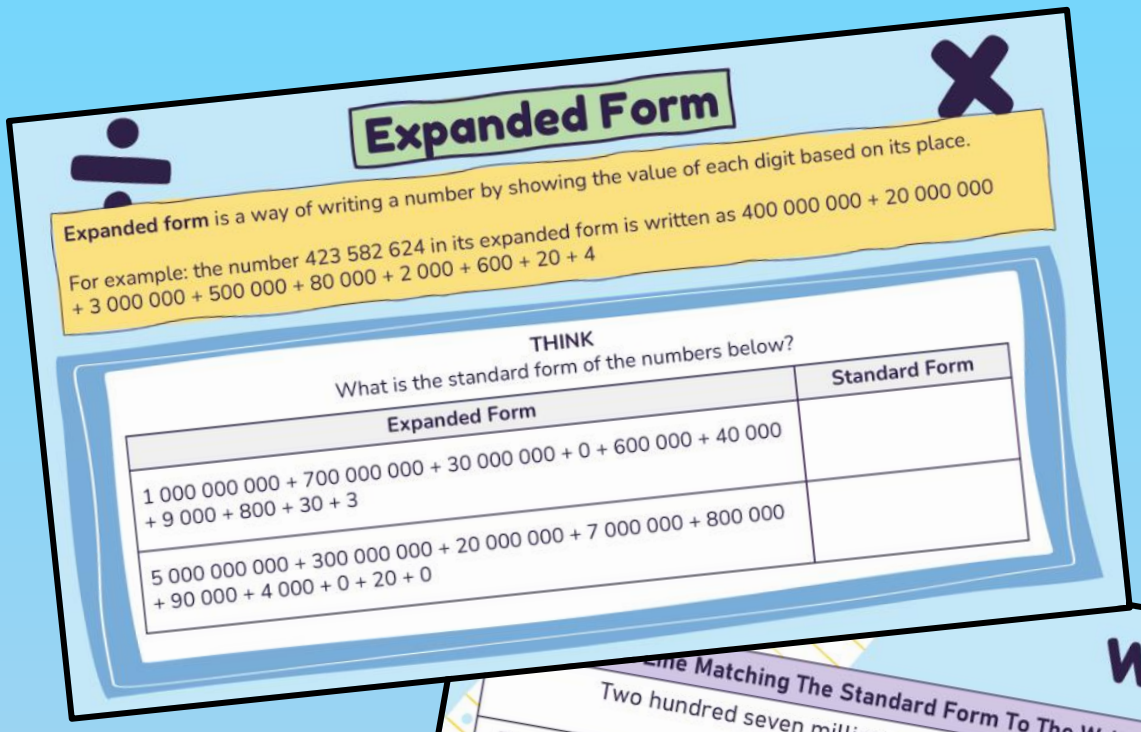


Ontario Math Number Unit – Grade 7



Expanded Form

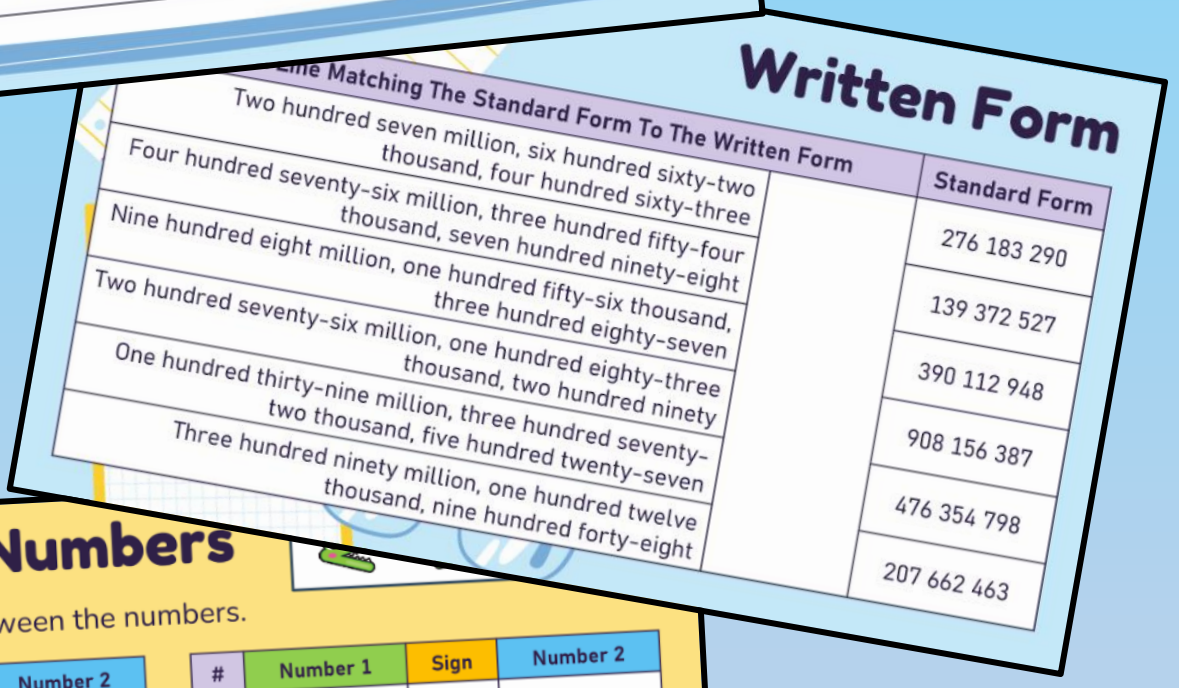
Expanded form is a way of writing a number by showing the value of each digit based on its place.

For example: the number 423 582 624 in its expanded form is written as 400 000 000 + 20 000 000 + 3 000 000 + 500 000 + 80 000 + 2 000 + 600 + 20 + 4

THINK

What is the standard form of the numbers below?

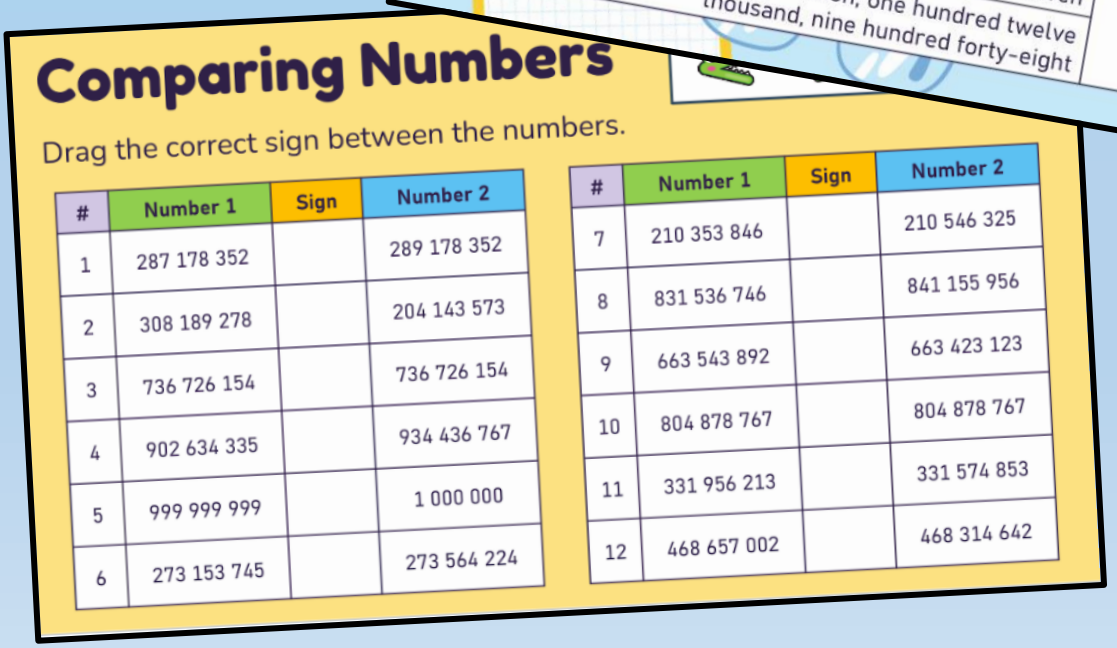
Expanded Form	Standard Form
1 000 000 000 + 700 000 000 + 30 000 000 + 0 + 600 000 + 40 000 + 9 000 + 800 + 30 + 3	
5 000 000 000 + 300 000 000 + 20 000 000 + 7 000 000 + 800 000 + 90 000 + 4 000 + 0 + 20 + 0	



Written Form

Matching The Standard Form To The Written Form

	Standard Form
Two hundred seven million, six hundred sixty-two thousand, four hundred sixty-three	276 183 290
Four hundred seventy-six million, three hundred fifty-four thousand, seven hundred ninety-eight	139 372 527
Nine hundred eight million, one hundred fifty-six thousand, three hundred eighty-seven	390 112 948
Two hundred seventy-six million, one hundred eighty-three thousand, two hundred ninety	908 156 387
One hundred thirty-nine million, three hundred seventy-two thousand, five hundred twenty-seven	476 354 798
Three hundred ninety million, one hundred twelve thousand, nine hundred forty-eight	207 662 463



Comparing Numbers

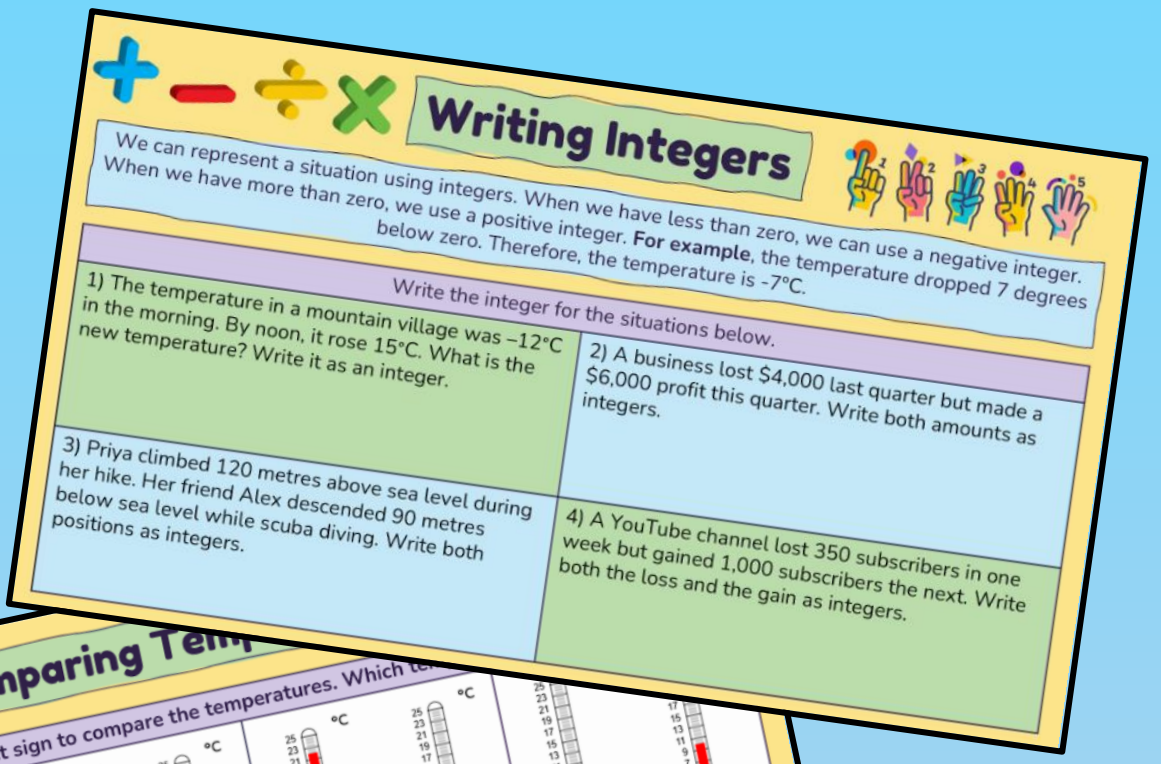
Drag the correct sign between the numbers.

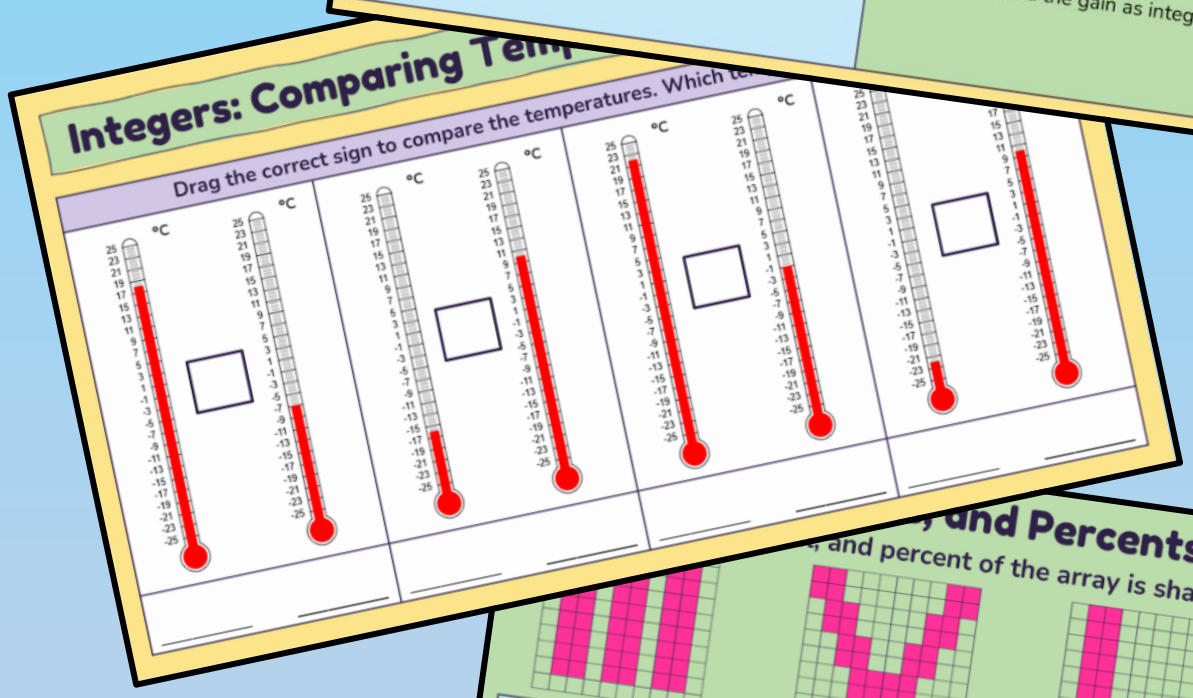
#	Number 1	Sign	Number 2
1	287 178 352		289 178 352
2	308 189 278		204 143 573
3	736 726 154		736 726 154
4	902 634 335		934 436 767
5	999 999 999		1 000 000
6	273 153 745		273 564 224

#	Number 1	Sign	Number 2
7	210 353 846		210 546 325
8	831 536 746		841 155 956
9	663 543 892		663 423 123
10	804 878 767		804 878 767
11	331 956 213		331 574 853
12	468 657 002		468 314 642

SUPER Simple SHEETS

Ontario Math Number Unit – Grade 7





Google Slides Lessons Preview

Ontario Math Curriculum
Graphing And Probability – Grade 7

3-Part Lesson Format

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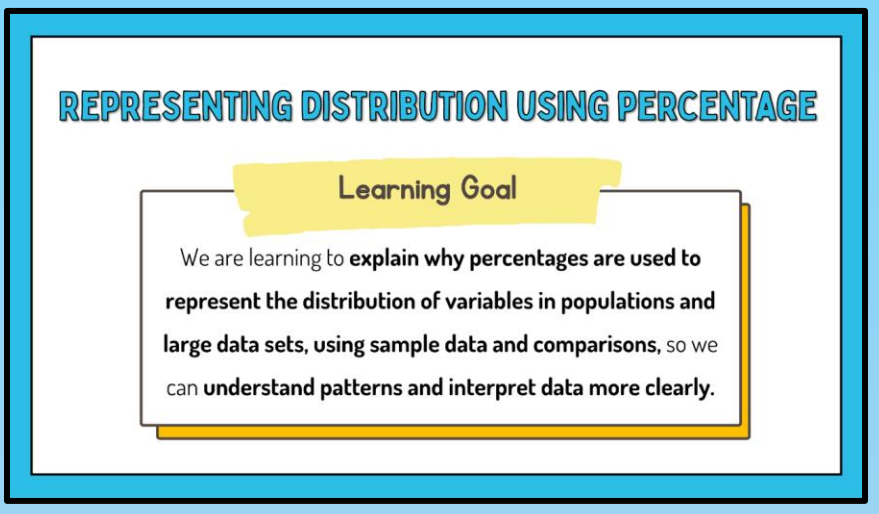

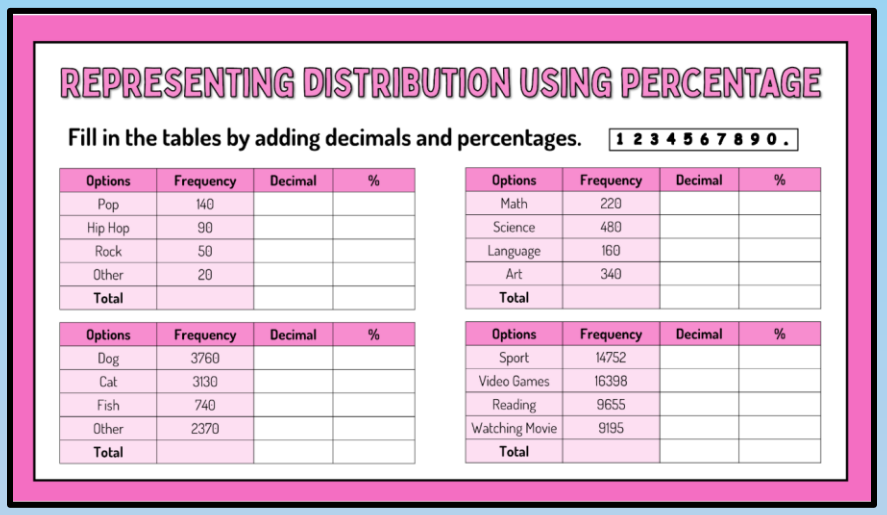

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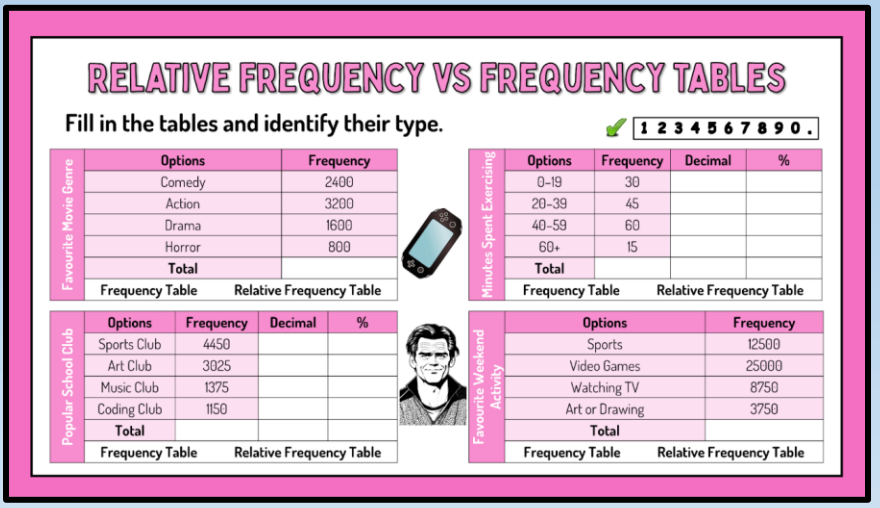


Ontario Math Curriculum
Graphing And Probability – Grade 7

MODE

1234567890

Answer the questions below.

1) Ava tracked how many hours she spent studying over 15 days. Her study times (in hours) were: **6, 7, 8, 7, 9, 7, 8, 6, 7, 8, 9, 7, 6, 7, 8**
What number of hours did Ava study most often?

2) Students were asked to choose their favourite type of sport.
The results are shown below:
1, 3, 2, 4, 2, 1, 3, 2, 2, 4, 3, 1, 2, 3, 2
Which sport was most popular?

Soccer	1
Basketball	2
Hockey	3
Track	4

3) A teacher recorded the number of questions students got correct on a quiz:
8, 9, 10, 8, 7, 9, 8, 10, 9, 8, 7, 8
What score occurred most often?

MEDIAN

- **Median** is the middle value in an **ordered data set**.
- It represents the **central position** of the data, not the average.
- The median is **resistant to outliers** (extremely large or small values).

How to find the median?

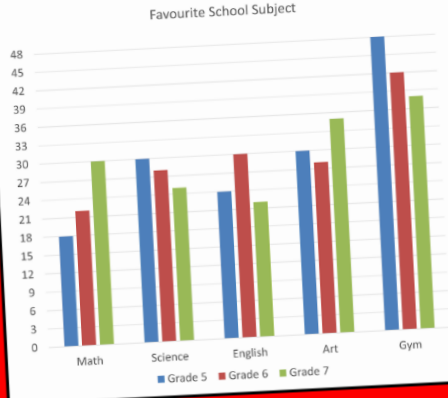
- **Step 1:** Arrange the numbers in order (smallest to largest).
- **Step 2:** Determine the total number of values (n).
  - ✓ If **n is odd** → The median is the middle number.
  - ✓ If **n is even** → Add the two middle numbers and divide by 2.

Examples

Data set: 12, 15, 9, 18, 14
Ordered list: 9, 12, 14, 15, 18
Median = 14

Data Set: 8, 10, 14, 30, 22, 18
Ordered list: 8, 10, 14, 18, 22, 30
Middle numbers: 14 & 18
Median = (14 + 18) / 2 = **16**

The students in Grade … school subject is their favourite. The results … shown in the multiple-bar graph below.



Subject	#	%	#			
Math	18/150	12				
Science						
English						
Art	30/150	20				
Gym						
Total						

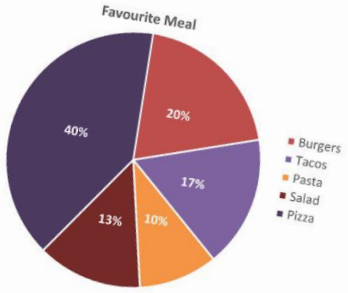
1) How many students in each grade were surveyed?	**Grade 5**
	Grade 6
	Grade 7
2) How many votes did the most popular subject receive in total?	

Ontario Math Curriculum
Graphing And Probability – Grade 7

INTERPRETING A CIRCLE GRAPH

Answer Page

A group of teens were asked to choose their **favourite meal**. The results are shown in the circle graph below.



Tacos | Pasta | Salad

Fill in the frequency table and answer the questions.

	Burgers	Tacos	Pasta	Salad	Pizza
Votes	6/30	5/30	3/30	4/30	12/30
%	20%	17%	10%	13%	40%

1) Which meal is the **most popular** among the teens? — Pizza

2) Do **Tacos, Pasta, and Salad combined** make up more than half of the choices? — Yes / No

3) Which meal represents **one-fifth (20%)** of the choices? — Burgers

4) What **percentage of teens did NOT choose pizza**? — 60%

INDEP…

A spinner has 6 equal sections labelled 1 to 6. Each number has … chance of being landed on.

Find the probability of each sum when the spinner is spun twice.

#	Questions	Answer
1	What is the probability of spinning twice and getting a **sum of exactly 7**?	6/36
2	What is the probability of spinning twice and getting a **sum less than 6**?	10/36
3	What is the probability of spinning twice and getting a **sum greater than or equal to 10**?	6/36

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

…can happen to how …

…vourable outcomes : Unfavourable outcomes

- Odds consider **all possible outcomes** by separating them into:
  - ✓ Outcomes we **want**
  - ✓ Outcomes we **do not want**
- These are called **complementary outcomes**.

Examples: If you roll a fair die:

- ✓ Probability of rolling a 3 = **1 out of 6**
- ✓ Ways it happens = 1
- ✓ Ways it does NOT happen = 5
- ➢ Odds in favour of rolling a 3 = 1 : 5