

Grade 3 Learning Advantage



100% Canadian content...

aligned with school curriculum

Learning Advantage [®]	
Preparing for success	
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Parent-friendly... List of curriculum expectations

Overall Curriculum Expectations for Grade Three

MATHEMATICS

Mathematics expectations are remarkably detailed. The following is a brief summary.

Students will...

Number Sense and Numeration

- identify and represent the value of a digit in a number according to its position in three-digit numbers;
- read, represent, compare, and order whole numbers to 1000, and use concrete materials to represent fractions and money amounts to \$10
- use estimation when solving problems involving addition and subtraction, to help judge the reasonableness of a solution;
- solve problems involving the addition and subtraction of single- and multi-digit whole numbers, using a variety of strategies;
- demonstrate an understanding of multiplication and division.
- estimate, count, and represent (using the \$ symbol) the value of a collection of coins and bills with a maximum value of \$10;
- demonstrate an understanding of magnitude by counting forward and backwards by various numbers and from various starting points;

Measurement

- estimate, measure, and record length, perimeter, area, mass, capacity, time, and temperature, using standard units;
- estimate, measure, and record the perimeter and area of two-dimensional shapes, the mass of objects, and the capacity of containers;
- compare and order objects on the basis of linear measurements in centimetres and/or metres

Geometry

- compare two-dimensional shapes and three-dimensional figures and sort them by their geometric properties;
- construct three-dimensional figures, using two-dimensional shapes;
- identify and describe the location of an object, using a grid map;

Patterning and Algebra

- describe, extend, and create a variety of numeric patterns and geometric patterns;
- demonstrate an understanding of equality between pairs of expressions, using addition and subtraction of one- and two-digit numbers.

Data Management and Probability

- collect and organize data and display the data using charts and graphs, including vertical and horizontal bar graphs;
- read, describe, and interpret primary data presented in charts and graphs, including vertical and horizontal bar graphs;
- predict the results of a simple probability experiment, then conduct the experiment and compare the prediction to the results.

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100% Canadian content ... Canadian money

Super Challenge

Grouping by value - not by counters

Example



Put into 3 equal groups by value



Note - Each group has a different number of coins, but each group is worth \$2.00

1. Put into 4 equal groups by value (hint 16¢). Use the coins on page 171.



[Blank space for student work]

2. Put into 2 equal groups of value. Use the coins on page 171.



[Blank space for student work]

WORDS

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100% Canadian content... Canadian measurements

How do Jacob's crops measure up?

Listed below are the linear measurements of Jacob and his neighbour Sam's biggest crop items. Compare the two friends' measurements and answer the questions below.

Crop Item	Sam's Crop	Jacob's Crop
Biggest Carrot	35 cm	42 cm
Highest Wheat	1 m	97 cm
Tallest Squash	400 mm	310 mm
Smallest Bean	2 cm	20 mm
Longest Cucumber	50 cm	55 cm

- List below Sam's crop items from shortest to longest.
 - _____
 - _____
 - _____
 - _____
 - _____
- List below Jacob's crop items from shortest to longest.
 - _____
 - _____
 - _____
 - _____
 - _____
- Which item is Sam's largest item? _____
- Which item is Jacob's smallest item? _____
- Which item is the same length for Sam and Jacob? _____
- In how many crop items did Sam beat Jacob? _____
- In how many crop items did Jacob beat Sam? _____
- Who was the overall winner? _____

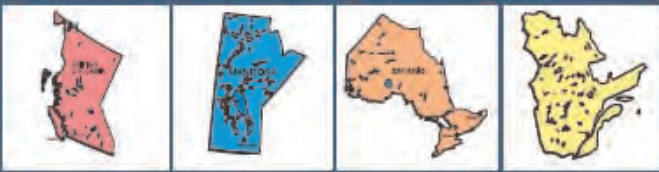


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Canadian Social Studies



Mix and Match

Draw a line to match the capital city to its province.
Circle the name of the province where you live.

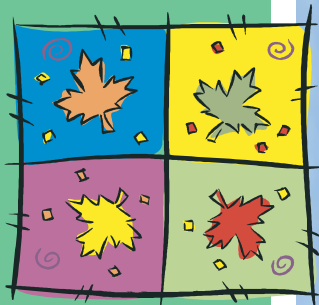
Yukon	Edmonton
British Columbia	Toronto
Alberta	Regina
Northwest Territories	Halifax
Saskatchewan	Yellowknife
Manitoba	Whitehorse
Ontario	Fredericton
Newfoundland and Labrador	Charlottetown
New Brunswick	Victoria
Nova Scotia	Winnipeg
Quebec	Quebec City
Prince Edward Island	St. John's
Nunavut	Iqaluit

1. The province I live in is _____

2. The capital city is _____



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Uses current educational theory...
integrated learning (Pioneer theme/ math skills)

Help Jacob Measure his Land

One centimeter on this map represents 100 m of Jacob's farm.
Estimate the length (top to bottom) and width (side to side) of Jacob's crops in meters (m)

Crop	Length	Width
Wheat Crop		
Grazing Field		
Vegetable Garden		
Pasture		

Measure the diagram of Jacob's crops in centimeters and convert to meters

- How wide is Jacob's Pasture? _____ cm = _____ m
- How long is Jacob's Wheat crop? _____ cm = _____ m
- How wide is Jacob's Grazing field? _____ cm = _____ m
- How long is Jacob's Vegetable Garden? _____ cm = _____ m

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Uses current educational theory...
tactile learning activities

Building 3-D Style

Materials

1. Ingredients for play-doh recipe (see below)
2. Mixing bowl
3. Mini-marshmallows
4. toothpicks



Drawing 3-D is good; but **building** in 3-D is even better.
To complete this activity you will first have to make play-doh.
Below is a recipe that you can make with the help of an adult.

Ingredients:

- 240 mL (1 cup) flour
- 240 mL (1 cup) salt
- 240 mL (1 cup) water with food colouring added
- 15 mL (1 tablespoon) oil


Method:

Mix dry ingredients in a big bowl.
Mix water, oil, and food colouring together.
Gradually add the liquid to the dry ingredients until you have a firm ball of dough, kneaded thoroughly, adding extra water and oil if required.

Play-doh keeps well in an airtight container in the fridge for several weeks. It will become increasingly sticky and moist with time.

Once you have made the play-doh, the creating is up to you. The only rules are that your creation must be three-dimensional, which means it must have length, width and depth, and your creation must come from you. Look deep into your imagination and take time and care in creating something to be proud of.

Want to create more? This time, build something 3-D using toothpicks and marshmallows. Build 3-D figures by using the marshmallows at the vertices to attach the toothpicks (the edges) together.




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Uses current educational theory...
information provided to engage pupil inquiry



The Early Settlers





Life for the early settlers was hard. They had to learn about many new things and had a lot of questions. They wanted to know about how to grow food in this new land, and what the climate was like in the winter. Luckily for many pioneers, the Aboriginal people had the answers to many of their questions. The Aboriginal people taught the settlers the best way to travel, which roots and plants could be used for medication, and even how to make maple syrup.

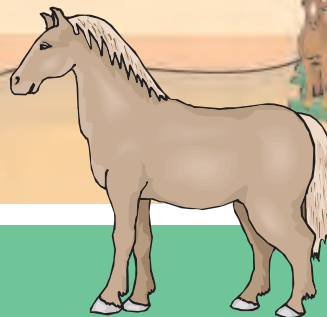
The land that these first pioneers settled on was hard, and covered in trees and rocks. Usually, they would arrive in Canada in the summer. They had to work very hard to clear the land so it would be ready for crops the next year. The hardest problem was to survive their first winter, but usually they would be helped by other settlers who had come to Canada a couple of years before. If the land was not cleared in time for planting in the spring, the pioneers would not have any food to eat for the winter after that. The settlers were very thankful to be given tools and supplies to get started - axes, spades, guns for hunting, a tent and seeds. Many got to work immediately clearing the land so they could plant their first crop in the spring. They planted crops of vegetables and wheat.

The next important job for the settlers was building a home. With Canada's harsh winters they needed shelter that would protect them from the cold and wet conditions. The tent they were given would not do them much good when the first snowfall arrived. The pioneers built their homes from the trees they had cut down to clear their land. This was very hard work and they would usually work together, many families at a time, to make the job easier.

Co-operation among the settlers was a big part of their success. Just like today, most jobs are easier when many people help each other. Without the support of their neighbours, many pioneers would not have made it through the first long winter. They shared tools, recipes, information, animals, skills and most importantly, friendship. Together they found the strength to overcome the hard years and create many of Canada's first towns and communities.




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Kid-friendly... Colourful graphics

Poetry 

Read the following poem out loud to your friends and family.

There was a lady with too many pets.
She searched high and searched low for all she could get.

She took in odd strays.
And even Blue Jays.

She always pleaded, "Oh, I'll just take one more."
So the number she had continued to soar.


Her friends asked "But why" ?
Her mother gasped "Oh my."

There seemed no end in sight.
Until one Saturday night,


Her pets, they all left.
They were fast and deft.

She was all alone.
And started to moan.

"I gathered too many.
And now I don't have any."



The illustration shows a woman with blonde hair and sunglasses, wearing a yellow top, sitting on a large grey dog. She is surrounded by various pets: a small brown dog, a grey cat, an orange cat, a blue turtle, and a spider. The scene is set against a light blue sky and a sandy ground.

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Kid-friendly... Guided practice

Flips, Slides and Turns

In Geometry there are three ways to move shapes around.
We can:

1. Flip them
2. Slide them
3. Turn them

1.

pretend there's a mirror

2.

3.

Do a **turn** by keeping the shape touching one point of its original position. You can turn it as far as you want, and you can turn it several times.

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Kid-friendly... confidence-building activities



How Well Do You Know Your Signs?

Match the safety signs below with their title. Next to the title is the colour of the sign. Colour the sign with the correct colours. **Hint:** You may have to look for these signs in your community to make sure you use the colours correctly.

	Telephone (green)
	School Crossing (yellow and black)
	Stop (red and white)
	Yield (yellow, black).
	Handicapped (blue and white)

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Kid-friendly...

Challenging activities for inquisitive minds

Similes and Metaphors

Similes and metaphors are often used in poems to make them more creative.
A simile uses the words like or as to compare two things.
A metaphor compares two things without using like or as.

Here are two similes:
You're as slow as a snail.
Your eyes shine like stars.

Here are two metaphors:
The dancer is a graceful swan.
The moon is a crescent roll.

Here is a poem that uses a simile:
The moon is like a slice of cheese,
The kind in which the Swiss say please.

Use a simile to write a short poem.

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Kid-friendly... reasonable drills

Awesome Addition

Example: $6+7=13$

6					
+7					
13					

+ + =

Calculate each sum.

1. $5+4=$ _____	2. $3+6=$ _____	3. $7+5=$ _____	4. $2+10=$ _____
5. $6+6=$ _____	6. $8+3=$ _____	7. $9+10=$ _____	8. $4+7=$ _____
9. $5+5=$ _____	10. $9+6=$ _____	11. $8+7=$ _____	12. $4+9=$ _____

$\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 11 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ + 5 \\ \hline \end{array}$

Solve; show your work using words, pictures, and numbers.
Cody collected 12 stamps. His grandmother gave him 8 more.
He bought 6 more at the post office.
How many stamps did he have altogether?

WORDS

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Kid-friendly... Interesting activities


Create a Plant

It's time to get creative. Your mission is to **create and draw a new plant** designed by you. You need to make sure you include each of the important items in the word bank. When your picture is complete, write the names of the items in the word bank next to the pictures.

Word Bank

Soil seeds sun air water roots leaves stems

A drawing of a plant with green leaves and blue flowers on the left, and a butterfly with orange and blue wings on the right, both on a brown ground line. The background is a light blue sky with palm tree silhouettes.

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Parent-friendly... Encourages parent involvement



Time for a Treat!

To end our Pioneer unit, it's time to make a fun treat for you to enjoy just like the new settlers did. Make sure that you make this with an adult and NEVER alone. Before you begin, read the recipe and answer the questions on the next page to make sure you understand. Have Fun!

POLLY'S PIONEER PANCAKES


375 mL	(1.5 cups)	all-purpose flour
15 mL	(1 tablespoon)	baking powder
15 mL	(1 tablespoon)	granulated sugar
2 mL	(1/2 teaspoon)	salt
1		egg
375 mL	(1.5 cups)	milk
25 mL	(1 tablespoon)	melted butter or oil

INSTRUCTIONS

With a large spoon, mix together flour, baking powder, sugar and salt. In a separate bowl, beat together egg, milk and melted butter. Add the dry ingredients to the liquid, mixing until almost smooth. (Don't worry about small lumps.)

Heat skillet or griddle over medium heat; brush with oil. Pour batter onto griddle using about 1/4 cup for each pancake. When underside is brown and bubbles break on topside (about 1-1.5 minutes) turn over and bake 30 to 60 seconds longer or until second side is golden brown.

Serve hot, with butter and maple syrup.



Recipe makes 12 pancakes.



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Parent-friendly... Family follow-up activities

Extensions and Field Trips
related to the first four units

Pioneer life
Visit your local pioneer village or old fort.
Look up some pioneer recipes and crafts and try them at home.
Pioneer recipes by Bobbie Kalman
Pioneer Crafts by Barbara Greenwood

Plants and Animals
Take a trip to a gardening centre and buy some seeds.
At home, plant your seeds and watch your plant grow.
Don't forget to give it lots of water and sunlight.

Find information about your favourite animal in a book or on the internet. Learn all you can about this animal.
Tell your family what you learned.
Draw a picture of your favourite animal.

Communities
Make a list of all the community helpers you see when you are out in the community.
Visit your local community centre and find out what activities they offer for the summer.

Safety (begins on next page)
Go for a walk with your family through your neighbourhood and practice the safety rules.
Teach one of your friends the safety rules for riding a bike.
Visit your local fire department and police station to get more information about safety.

A vertical illustration on the right side of the page showing school supplies: a graduation cap with a tassel, a pencil, a paint palette with yellow and blue paint, and a book. A small orange car is shown in a circular inset at the top of this illustration.

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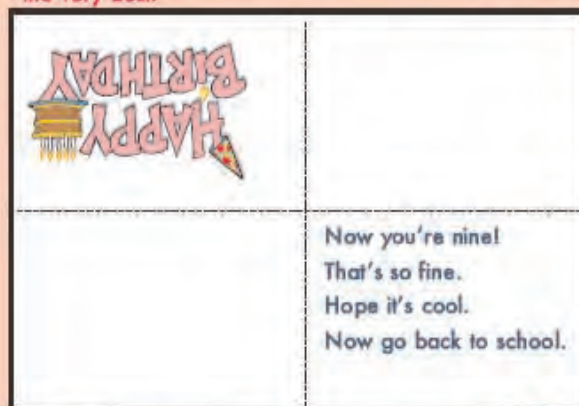
Kid-friendly... Activities for classroom sharing

Create your own Greeting Card

Take a separate piece of paper. Follow the design on this to make it into a card.



1. Fold the paper in half.
2. Fold it again.
3. Your card now has a front, back, and inside.
4. On the front, draw a picture and write a few words to say what the card is about (like, "Happy Birthday" or "You're Nice" or "I love you.")
5. On the inside, write out the poem you created on the previous page.
6. On the back, in small letters, write "This card was created by _____ because I care enough to give the very best."



fold on
dotted line

