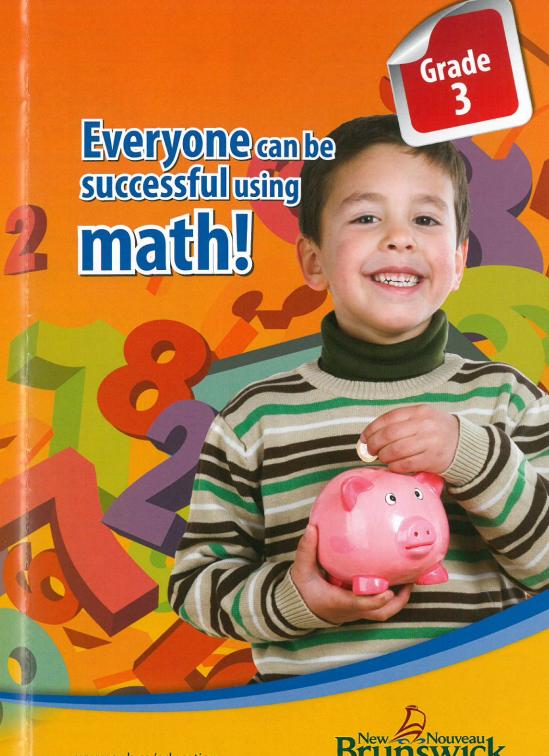
Internet Resources for Grade 3 Math Students:

The internet is a source of many resources to help you and your child understand and practice math at the Grade 3 level and beyond. These sites were active at the time of publication, but you should preview them first to ensure they are appropriate for your child's needs and interests.

- Interactive Math Dictionary a great resource for you and your child: www.teachers.ash.org.au/jeather/maths/dictionary.html
- National Council of Teachers of Mathematics "Illumination" interactive activities: http://illuminations.nctm.org/ActivitySearch.aspx
- National Council of Teachers of Mathematics "Figure This" puzzles and problems: http://www.figurethis.org
- National Library of Virtual Manipulatives interactive activities for all grade levels: http://nlvm.usu.edu/en/nav/vlibrary.html
- TVO kids collection of videos and games for math and other subjects http://www.tvokids.com/6-11
- NRich activities, games, and problems: http://nrich.maths.org/forstudents
- Education Place Math a Rama interactive games and activities, glossary and more: http://www.eduplace.com/kids/mw
- BBC Bitesize Maths activities and games to practice skills: http://www.bbc.co.uk/schools/ks2bitesize/maths
- Cool Math 4 Kids puzzles, games, and much more: http://www.coolmath4kids.com

Contact Us

The Department of Education and Early Childhood Development is committed to your child's success in math. If you have any questions about your child's progress or about how you can be an active part of his or her learning, contact your child's teacher or the Department of Education and Early Childhood Development at 506-453-3678.



Suggeed in Math You can Help your Child

Create a positive attitude to math.

- Show your child that you think math is important. Be confident that everyone can learn math. Encourage your child to keep trying even when an answer is difficult or slow to find.

 Treat errors and misconceptions as opportunities
- to learn. Celebrate successes!

Ask prompting questions when your child needs help.

- What do you already know to help you solve the problem?
 Can you draw a picture or make a diagram to help solve the problem?
 What words or directions do you not understand?
 Do you see any patterns?
 Does that make sense to you?
 How do you know?
 If you don't know how can you find out?

Show an interest in your child's math studies

Make math part of

everyday life.

- Provide a space and materials to help your child at home.
 Ask your child to share what she or he is learning in math class.
 Be an interested listener, accepting different ways to find solutions.
 Ask your child to explain how to solve homework questions so you can ensure that he or she understands the skill being practiced.
 Keep in contact with your child's teacher.

Estimate everything: the number of things, amount of time, length and mass. things, amount of time, length and mass.
Practise "skip counting" (e.g., by 2s, 5s, 10s, etc.) when playing games and counting money.
Play board games and strategy games play board games and discuss strategies.
(e.g., tic-tac-toe) and discuss strategies.
Organize toys, collections and other things around the house.
Encourage your child to use his or her math skills to help you cook, shop and math skills to help you cook, shop and

measure.
Talk about time and use a calendar to discuss upcoming events, such as

holidays. Do jigsaw puzzles together

The Big Ideas of Grade 3 Math

- Count forwards and backwards from 0 to 1000 by 3s, 4s, 5s, 10s, 25s and 100
- Tell the value of a set of coins by skip counting
- 1 quarter, 4 dimes and 5 nickels \longrightarrow 25¢, 35¢, 45¢, 55¢, 65¢, 70¢, 75¢, 80¢, 85¢, 90¢
- Numbers to 1000: represent, describe, compare, and order understand the value of digits in numbers 10 hundreds is one thousand

BOOKS that

Make Math Fun

- 453=four hundred fifty-three 874, 847, 784, 748, 487, 478
- Mental math and estimation strategies for adding and subtracting two-digit numerals (adding from left to right, using doubles, thinking of addition, taking one number to the nearest multiple of ten)
- Knowing what 10 objects looks like helps estimate how many objects in a larger group To solve 27 + 64, think 30 + 64 = 94 3 so the sum is 91. To solve 83 45, think 45 + 5 = 50; 50 + 30 is 80; 80 + 3 = 83, so the answer is 38 (5 + 30 + 3).
- Recall basic addition facts to 18 and related subtraction facts
- Solve addition and subtraction equations that include a symbol to represent an unknown number

Big Numbers and Pictures that Show Just How Big They Are! by Edward Packard

Shark Swimathon by Stuart J. Murphy Measuring Penny by Loreen Leedy

How Much, How Many, How Far, How Heavy, How Long, How Tall Is 1000? by Helen Nolan

- 20 = □ + 10 16-△=9 \triangle -6=11
- Addition and subtraction with answers to 1000 (limited to one-, two-, and three-digit numbers) $17 + \square = 25$
- Multiplication and division up to 5×5 using a variety of strategies

Grandfather Tang's Story by Ann Tompe

The Doorbell Rang by Pat Hutchins

Amanda Bean's Amazing Dream by Cindy Neuschwander

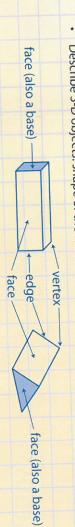
- 3×4 can be solved by: - skip counting — + 4 + 4 + 4 = 12

 - making sets of equal groups (AAAA) (AAAA)

 - making an array 0000
 0000
- one fourth -+ 0000 $\frac{4}{6}$ is more than $\frac{2}{6}$

Fractions (parts of a whole and parts of a set) name, record, model and compare

- Increasing and decreasing patterns: describe, continue, compare and represent
- Time: solve problems involving seconds, minutes, hours, days, weeks, months, years
- Measure and estimate length using centimetres and metres; develop personal referents for these my finger is about 1 centimetre wide a doorknob is about 1 metre from the floor 1m = 100 cm
- Measure and estimate mass using grams and kilograms; develop personal referents for these 1 litre of water is about 1 kilogram 1 kg = 1000 g
- Perimeter of regular and irregular shapes; measure and estimate using centimetres and metres a paperclip is about 1 gram
- Describe 3-D objects: shape of the faces and the number of vertices and edges





Be Positive About Math

Every child can learn math. Regardless of your own abilities and interest in math, you can help your child to succeed in math. The important thing is to welcome math into your child's everyday life.

In the world your child is entering, an understanding of math will be **essential for success**. Math has never been more important than in today's competitive, technological world.

You don't have to be a geek to love math and science.

Robert Thirsk - Canadian astronaut

What Learning Math can Give Your Child

- Math is a way of thinking; it has often been called a language, Just like learning a new language, learning math actually develops parts of your child's brain and thinking skills.
- Math will enable your child to recognize patterns and relationships and use this information to make better decisions and to solve problems more creatively.
- Mastering math will build your child's self-confidence and ability to think flexibly.
- Solid math skills will open the door to a variety of career opportunities in the future.

What Your Child is Learning as a Math Student

Your child is learning more than simply memorizing math facts and rules. Your child is learning to:

- · explore possibilities and take risks in order to succeed.
- make sense of math, and is developing an understanding of how it works.
- make connections between everyday experiences and the skills and ideas learned in math class.
- 🗲 share and explain his or her thinking by talking, writing and drawing.
- use technology to explore and learn new ideas.
- solve problems.
- think logically and critically.

