



**Senior Years
Literacy, Academics, and Language (LAL)
Numeracy Courses**

Bibliography

Manitoba Education and Training Resources

Manitoba Mathematics Website

This site provides a portal to all of the Manitoba curriculum and teacher support documents for teaching and assessing mathematics, including the series of support documents for teachers of mathematics for Grades 1 through 8 and the Mental Math series for Grades 8 through 12.

www.edu.gov.mb.ca/k12/cur/math/index.html

Manitoba EAL Website

This site provides a portal to all of the Manitoba curriculum and teacher support documents for teaching English as an additional language. It includes information on funding, additional learning resources, and related links for teachers.

www.edu.gov.mb.ca/k12/cur/eal/index.html

Manitoba Glance Across the Grades

This resource is a compilation of the outcomes into suggested categories or learning targets. These learning targets sort the outcomes and allow teachers to preview the outcomes across grade levels. This can enable teachers to differentiate teaching within each strand of the curriculum.

The document contains big ideas, which are located under each learning target. These big ideas are statements of an idea that is central to the learning of mathematics and makes instruction purposeful. Using the big ideas within the Glance Across the Grades document can be a central focus for professional discussion and action related to classroom practice.

It is available online and in print through the Manitoba Learning Resource Centre (stock #80726).

www.edu.gov.mb.ca/k12/cur/math/glance_k-9/index.html

My Child in School: A Resource for Parents

Children are more likely to succeed in school when parents or guardians are informed and involved in their education. This resource facilitates parental involvement and provides them with the information they need:

www.edu.gov.mb.ca/k12/mychild/

Resources

Benchmarks, Strategies, and Resources for Teachers of English Language Learners

This Alberta Department of Education website allows educators access to Alberta's **K–12 proficiency benchmarks**, student **writing samples** with benchmark analysis, **videos** of students engaging in content learning with teacher commentary on proficiency levels and benchmark analysis, programming information on **organizing for instruction, assessment tools and strategies** for English language learners, and research and resources on a variety of topics related to EAL.

www.learnalberta.ca/content/eslapb/

Digital Learning Tools

Interactive virtual environments to visualize and explore patterns, test conjectures and compare mathematical representations.

<https://nzmaths.co.nz/digital-learning-objects>

Designed by the National Council of Teachers of Mathematics (NCTM), these resources for teaching and learning mathematics include interactive tools for students and instructional support for teachers

<https://illuminations.nctm.org/>

Free Math Worksheets

K5 Learning offers reading and math worksheets, workbooks, and an online reading and math program for Kindergarten to Grade 5 students.

www.k5learning.com/free-math-worksheets

Grade 7 Mathematics ELL Scaffolding

This State of New Jersey Department of Education website provides useful scaffolding resources for English language learners in Grade 7 Mathematics.

www.state.nj.us/education/modelcurriculum/math/ellscaffolding/7u4.pdf

How to Teach Math to English Language Learners

This TeachHub.com resource by Tracie Heskett, M.Ed., provides strategies for teaching mathematics to ELLs.

www.teachhub.com/teaching-math-to-english-language-learners

Instructional Supports by Level of English Language Proficiency

“When organizing for instruction, the goal is to match each English language learner to the most appropriate program or class and ensure teachers have access to the support and resources they need to meet the student’s learning needs. Instructional supports need to be responsive to the student’s academic and language learning abilities, needs and interests and these supports should be revisited and adjustments made, as necessary, as student needs change.” This Alberta Department of Education resource helps teachers organize for instruction of English language learners.

www.learnalberta.ca/content/eslapb/organizing_for_instruction_instructional_supports.html

Integers

This resource, part of the Continuum and Connections series by Targeted Implementation and Planning Supports for Revised Mathematics (TIPS4RM), is useful in planning for teaching integers to English language learners.

www.edugains.ca/resources/LearningMaterials/ContinuumConnection/Integers.pdf

Manitoba Rural Learning Consortium

The Manitoba Rural Learning Consortium (mRLC) is a cooperative that serves rural educators through collaborative professional learning networks and research projects and resources. The Tools and Resources section of the mRLC website includes useful Essential Learning resources and Backward Design Unit Samples.

www.mrlc.ca/tools.html

Math in English

This site provides useful primary math worksheets and word problems for English language learners.

www.mathinenglish.com/menuWorksheets.php
www.mathinenglish.com/menuWordProblems.php

Math Word Problems for English Learners

This site provides strategies for EAL students to achieve success with mathematics word problems.

<http://study.com/academy/lesson/math-word-problems-for-esl-students.html>

Methods for Single-Digit Addition and Subtraction

This video by UnboundEd provides a description of the three levels for single-digit addition and subtraction: counting all, counting on, and converting to an easier problem.

www.unbounded.org/media/7248

Problem-Solving Activities

The problem-solving activities are grouped by strand and age level. They are designed for able students to attempt by themselves. Solutions and extensions are provided.

<https://nzmaths.co.nz/problem-solving>

Suggested Anti-Bias Strategies for Use with ELL Students

This list from Teaching Tolerance provides sample ELL-friendly strategies to spark creativity that can be implemented alone, combined, or integrated into previously created lessons.

www.tolerance.org/ELL-appendix-a

Teaching Strategies for English Language Learners

SupportREALteachers.org is an initiative of the Center for Advancement of Standards-Based Physical Education Reform (CASPER), a non-profit organization that consists of teachers, parents, school administrators, and other stakeholders who are concerned about quality physical education.

www.supportrealteachers.org/strategies-for-english-language-learners.html

Translating Word Problems: Keywords

This site by Purplemath provides hints and tips for English language learners to find the equation they are looking for when doing word problems.

www.purplemath.com/modules/translat.htm

Youcubed

Youcubed is an initiative intended to inspire, educate, and empower math teachers by making current math education research more accessible and practical.

www.youcubed.org/

What is Numeracy?/The Essentials of Numeracy

“National Numeracy is an independent charity established in 2012 to help raise low levels of numeracy among both adults and children and to promote the importance of everyday maths skills.”

www.nationalnumeracy.org.uk/what-numeracy
www.nationalnumeracy.org.uk/essentials-numeracy

What is Subitizing?

This resource by Pre-K Pages is useful for pre-K and Kindergarten teachers.

www.pre-kpages.com/subitizing/

Which One Doesn't Belong

A website created by Mary Bourassa for comparing and contrasting shapes, numbers and graphs. These puzzles do not have any words and facilitate discussions of “Which one doesn't belong?”

<http://wodb.ca/index.html>

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