

Homework Help



Please use the list below as a way to demonstrate the 'Big Ideas' to your class or post as a list for the class to see where they can get help on a specific topic. All Session titles are web linked to make this process easier for you and your students. Remember too, that the students have the ability to log in and 'Ask a Tutor' specific questions that may not be answered in the lists below. A [Glossary of Terms](#) is also available on the Homework Help site to help with clarifying terms as the students require. ** This is a working list which will be updated as resources become available.

Grade 9 Foundations of Mathematics (MFM1P)

EQAO Preparation / Review

** Note these are not listed in the general curriculum ties but may be used at any point during a unit.

** There are many other EQAO resources available – the ones listed above are marked as 'Applied'.

** Also there are resources from the MPM1D course which may be used for the MFM1P course. Preview selection to make sure it is reasonable for your students.

Unit One: Number Sense and Algebra

Big Idea	Resource Type	Session Title
Percents, fractions and decimals	Best Sessions	Fractions - understand what to do with the fractions in a word problem. Interpret a word problem and then discover the difference between multiplying fractions and cross multiplying.
	Listen and Learns	
	Interactive	Percentages Powers
Simplifying and Solving	Best Sessions	BEDMAS: $4 \times 16 / 2 - 10 + 4$ Use BEDMAS to solve this equation. Algebra: $3(p+7) - (4p-1) = -5(2p-3) + 1$ using the distributive property Solve this expression using the distributive property. Simplify $3b - 4 - 5b = -3b - 2$ Collect like terms to solve for this variable. Algebra: simplifying polynomials by collecting like terms Simplify this expression by collecting like terms.
	Listen and Learns	Solving Equations: Multiple-step solutions Runtime: 44min
	Interactive	Simplifying Polynomials by Combining
Exponents and rooting	Best Sessions	Exponents: How to deal with a negative when you are solving exponents When your base is negative, you need to include the sign when you are expanding your exponents.
	Listen and Learns	
	Interactive	

Unit Two: Linear Relations

Big Idea	Resource Type	Session Title
Scatter plots and graphing	Best Sessions	
	Listen and Learns	
	Interactive	The XY-Plane
Variables, trends, relationships	Best Sessions	
	Listen and Learns	Making Equations from Real-Life Problems Runtime: 26 min
	Interactive	Word Problems: Finding a Pattern Linear Relations
Table of values	Best Sessions	
	Listen and Learns	
	Interactive	Word Problems: Using a Table
Line/curve of best fit	Best Sessions	Line of best fit: How do you find a line of best fit? The basics for determining a line of best fit.
	Listen and Learns	
	Interactive	
Slope – rate of change	Best Sessions	
	Listen and Learns	Rate of Change Runtime: 24min
	Interactive	Slope Calculation

Unit Three: Measurement and Geometry

Big Idea	Resource Type	Session Title
Area, perimeter	Best Sessions	
	Listen and Learns	Measurement: Optimization Runtime: 45min
	Interactive	
Pythagorean theorem	Best Sessions	Pythagorean's Theorem - solving right triangles Solve for the missing side of a right triangle using the Pythagorean theorem.
	Listen and Learns	
	Interactive	Pythagorean Theorem
Volume of pyramid, cone and sphere	Best Sessions	
	Listen and Learns	Measurement: Optimization Runtime: 45min
	Interactive	Volume Calculation
Angles	Best Sessions	Angles: Find the missing angles using supplementary angle theorem Find the missing angles in this triangular diagram.
	Listen and Learns	
	Interactive	

EQAO Preparation / Review

** Note these are not listed in the general curriculum ties but may be used at any point during a unit.

** There are many other EQAO resources available – the ones listed above are marked as ‘Applied’.

Big Idea	Resource Type	Session Title
EQAO!	Best Sessions	<p><u>What kinds of questions are on the EQAO?</u> Be prepared for the EQAO by knowing the topics and kinds of questions there will be.</p> <p><u>EQAO tips for dealing with stress (seminar)</u> EQAO can be stressful. An experienced teacher shares some tricks and tips for alleviating the stress of EQAO.</p> <p><u>EQAO prep: What do you need to know?</u> How to get started: Preparing for your EQAO.</p> <p><u>EQAO: Tips on how EQAO marks/scores your test (seminar)</u> Learn what you EQAO mark means and how to earn the best mark.</p> <p><u>EQAO: Hints for writing the Open Response questions on EQAO (seminar)</u> Learn strategies to successfully write the 'open response' section of the EQAO.</p> <p><u>EQAO: Measurement questions on EQAO (seminar)</u> Learn how to approach measurement questions on the EQAO</p> <p><u>EQAO: Polygon Geometry (seminar)</u> See how a geometry question would be solved on the EQAO.</p> <p><u>EQAO Exponent rules: division</u> Learn how to deal with exponents when dividing.</p> <p><u>EQAO: Percent of a Number/Discount for applied test (seminar)</u> This question models the kind of percentage question you might encounter on the applied EQAO test.</p> <p><u>EQAO: Ratio and Proportion Questions (seminar)</u> Learn tips and strategies for solving ratio and proportion questions on the EQAO.</p> <p><u>EQAO: Percent and numeracy questions (seminar)</u> Solve an EQAO problem involving cost and taxes. Two methods to solve the question are shown.</p> <p><u>EQAO: Tips for Writing Geometry questions Part 1. (seminar)</u> EQAO tests usually include a geometry question. Learn how to tackle these geometry questions.</p>

[**EQAO: Applied Measurement Question for applied test \(seminar\)**](#)

A sample EQAO question that explores the relationship between volume of a sphere and its radius.

[**EQAO: Rate of Change for applied students \(seminar\)**](#)

A sample question involving rate of change that models the type of question applied students will encounter.

[**EQAO: Word Problem with Algebra for applied test \(seminar\)**](#)

Work through the kind of open ended question you might see on the Applied EQAO test.

[**EQAO - how to write multiple choice questions \(seminar\)**](#)

EQAO is a combination of multiple choice and open response questions. Learn how to successfully answer multiple choice questions.

[**EQAO: Multiple Choice Questions Part 1 \(seminar\)**](#)

Learn how to answer multiple choice questions by eliminating answers that don't make sense.

[**EQAO Multiple Choice Question: Part 2 \(seminar\)**](#)

Learn how to solve a multiple choice question involving graphing.

[**EQAO Multiple Choice Questions: Part 3 \(seminar\)**](#)

Solving a word problem with multiple choice answers requires careful attention to the details of the question.

[**EQAO Multiple Choice Questions: Part 4 \(seminar\)**](#)

Work through a geometry question with multiple choice answers.

[**EQAO Slope: Rise over run**](#)

Understanding the basics of slope and how to find the slope of a line on a graph.

[**EQAO Pythagorean Theorem**](#)

Use the Pythagorean Theorem to find the height of a cone.

[**EQAO: Ratio and Proportion Questions \(seminar\)**](#)

Learn tips and strategies for solving ratio and proportion questions on the EQAO.

[**EQAO Ratios: unit rate**](#)

Find the unit rate.

[**EQAO: Comparing the slope of two lines \(seminar\)**](#)

Learn how to set up an EQAO question that asks you to compare the slopes of two lines.

[**EQAO: Measurement and algebra \(seminar\)**](#)

A sample question for the EQAO test that tests your understanding of measurement and algebra.