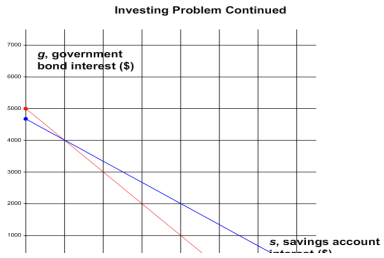
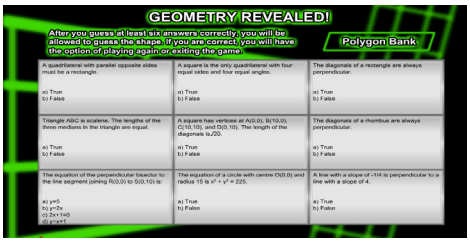
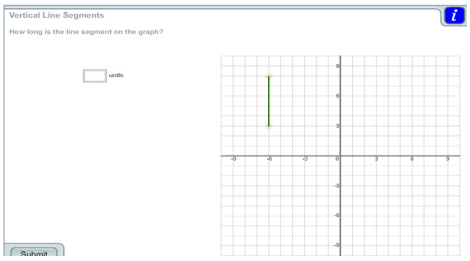
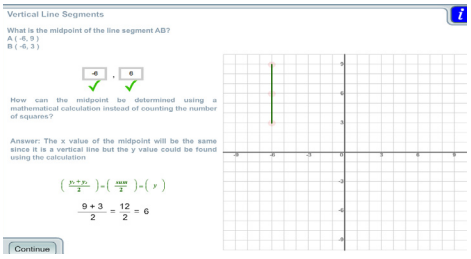
Grade 10 MPM2D
Ontario Educational Resources Bank (OERB) Activities

Analytic Geometry	
Activity	**Description**
Linear Systems at the Theme Park  **Resource ID: ELO1105610**	Practise full variety of concepts and vocabulary related to linear systems by reviewing some key terminology and answering a set of multiple choice questions involving solving systems graphically and by the algebraic methods of substitution and elimination.
Analytic Geometry Reviewer  **Resource ID: ELO1099660**	Practise variety of analytic geometry concepts by answering a set of multiple choice questions involving midpoint and length of a line segment, equations of lines and circles and the properties of geometric shapes.
Discovering Distance  **Resource ID: ELO1098330**	Develop understanding of the distance formula by discovering how it is related to the Pythagorean Theorem. Practise finding the length of a line segment from two given points by working through a provided template.
Discovering Midpoints  **Resource ID: ELO1096550**	Develop understanding of the midpoint formula by viewing a detailed explanation of how it is derived. Practise finding the midpoint of two given points by working through a provided template.

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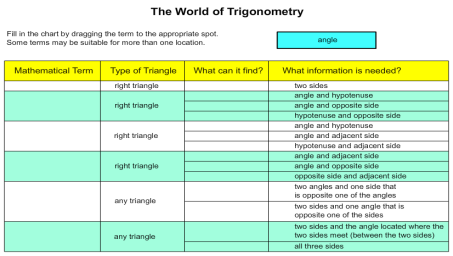
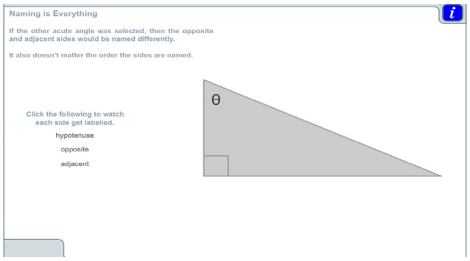
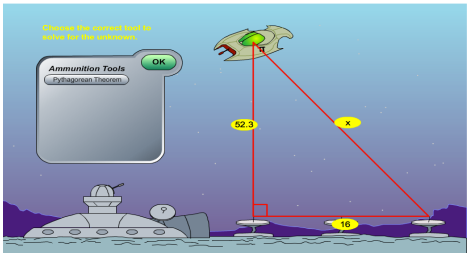
Trigonometry	
Activity	**Description**
The World of Trigonometry  The World of Trigonometry Fill in the chart by dragging the term to the appropriate spot. Some terms may be suitable for more than one location. angle Mathematical Term / Type of Triangle / What can it find? / What information is needed? right triangle — two sides right triangle — angle and hypotenuse right triangle — angle and opposite side right triangle — hypotenuse and opposite side right triangle — angle and hypotenuse right triangle — angle and adjacent side right triangle — hypotenuse and adjacent side right triangle — angle and adjacent side right triangle — angle and opposite side right triangle — opposite side and adjacent side any triangle — two angles and one side that is opposite one of the angles any triangle — two sides and one angle that is opposite one of the sides any triangle — two sides and the angle located where the two sides meet (between the two sides) any triangle — all three sides **Resource ID: ELO1098500**	Practise solving triangles first by selecting the appropriate trigonometric formula (Pythagorean theorem, sine, cosine, tangent, sine law or cosine law) that is required. Then, by solving real-life measurement problems that require these formulae.
Naming is Everything  Naming is Everything If the other acute angle was selected, then the opposite and adjacent sides would be named differently. It also doesn't matter the order the sides are named. Click the following to watch each side get labelled. hypotenuse opposite adjacent θ **Resource ID: ELO1087860**	Practise right triangle terminology in preparation for the primary trigonometric ratios by naming the sides of right triangles according to the selected angle.
Invasion of PI  Ammunition Tools Pythagorean Theorem OK 52.3 x 16 **Resource ID: ELO1098350**	Practise solving right triangles by selecting the appropriate theorem, tool or law to be used and then solving for the unknown measure in a given triangle.