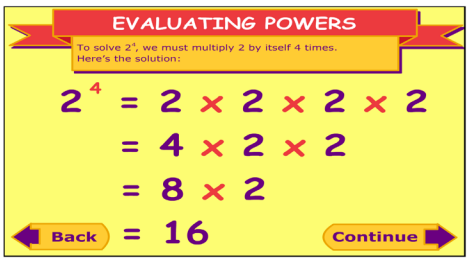
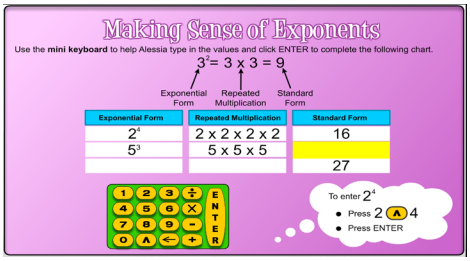
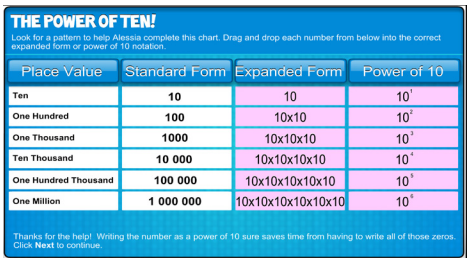
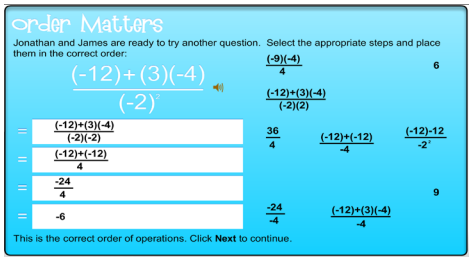
Grade 8 Number Sense and Numeration
Ontario Educational Resources Bank (OERB) Activities

Quantity Relationships

Activity	Description
Exponents: Grade 8 Mathematics  **Resource ID: ELO1033350**	Build understanding of representing whole numbers in expanded form using powers of ten by viewing an illustrated explanation of the meaning of a power and how to find its value. Practise evaluating powers by matching powers with their values.
Exponents Part 1  **Resource ID: ELO1414850**	Build understanding of exponential notation by viewing a sample Frayer Model of "Powers" and an explanation of how to express powers as repeated multiplication. Explore multiple power representations of a number, as well as practise evaluating powers and representing repeated multiplications in exponential form.
Exponents Part 2: The Power of Ten  **Resource ID: ELO1414860**	Practise representing whole numbers in expanded form by using powers of ten and comparing whole numbers in expanded form, after viewing a sample place mat of how to represent a number in different ways and some guided instruction.

Operational Sense

Activity	Description
Order Matters  **Resource ID: ELO1414880**	Build understanding of order of operations by comparing and analysing solutions to a multi-step problem. Practise order of operations by properly sequencing a given set of steps to the solution of a problem and by solving a multi-step money problem.

Grade 8 Number Sense and Numeration
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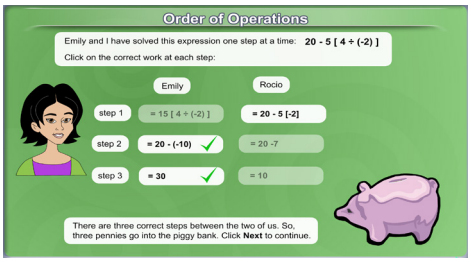
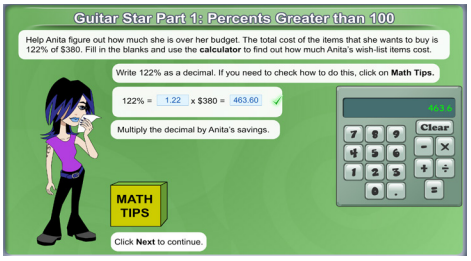
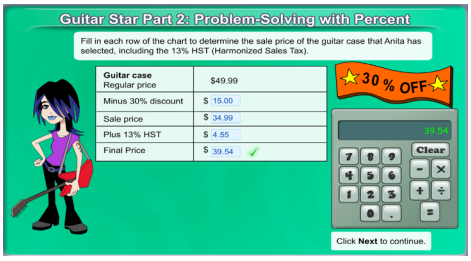
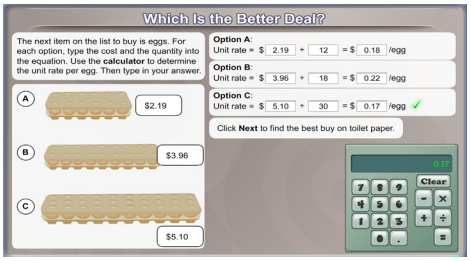
Operational Sense (Continued)	
Activity	**Description**
Order of Operations Part 2  **Resource ID: ELO1417920**	Practise differentiating between correct and incorrect steps and evaluating multi-step expressions by reviewing BEDMAS (the acronym for the correct order of operations), and a set of algorithms for adding, subtracting, multiplying, and dividing integers.
Proportional Relationships	
Activity	**Description**
Guitar Star Part 1: Percents Greater than 100  **Resource ID: ELO1413860**	Practise writing percents as decimals and calculating the percent of a number, including percents over 100% by solving problems that involve percents.
Guitar Star Part 2  **Resource ID: ELO1413870**	Practise solving a variety of problems involving percent by finding discounts, calculating the sale price and calculating the final price including HST.
Which is the Better Deal?  **Resource ID: ELO1411780**	Practise solving problems involving rates to find the best deal by calculating and comparing the unit rates of a variety of grocery items, after viewing a deomonstration of how to determine unit rates.