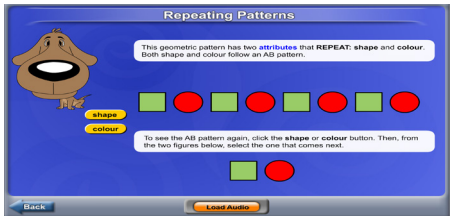
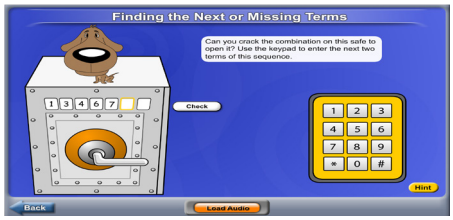
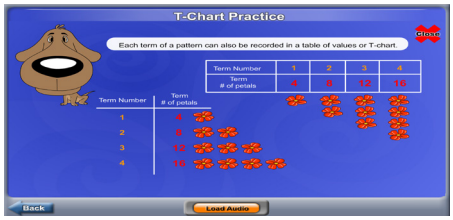
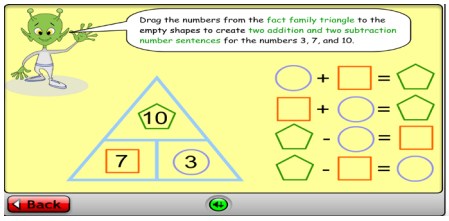
Grade 4 Patterning and Algebra
Ontario Educational Resources Bank (OERB) Activities

Patterns and Relationships	
Activity	**Description**
Patterning with Penny Part 1: Repeating, Growing and Shrinking Patterns  **Resource ID: ELO1408740**	Build understanding of geometric patterns involving two or more attributes by extending repeating, growing and shrinking patterns.
Patterning with Penny Part 2: Exploring Numeric Patterns and Pattern Rules  **Resource ID: ELO1408750**	Build understanding of extending number patterns and identifying the pattern rule using addition, subtraction and multiplication to describe the relationship between the numbers.
Patterning with Penny Part 3: Patterning Using T-Charts or Tables  **Resource ID: ELO1408760**	Practise making predictions and connecting each term with its term number by recording number patterns in a table of values.
Expressions and Equality	
Activity	**Description**
Alien Algebra Part 1: Investigating Inverse Relationships  **Resource ID: ELO1418520**	Build understanding of the inverse relationship between multiplication and division, as well as addition and subtraction by investigating fact families and creating related equations.

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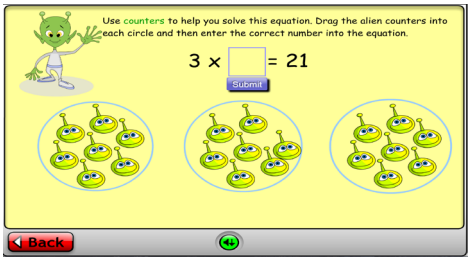
Expressions and Equality (Continued)	
Activity	**Description**
Alien Algebra Part 3: Find Missing Numbers  **Resource ID: ELO1418540**	Build understanding of multiplication by modelling expressions involving multiplication. Practise determining the missing number in equations involving multiplication by using a variety of tools and strategies (arrays, counters, inverse operations, fact families, number line, base ten, repeat addition).