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 Repositing 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 Finding the Next or Missing Terms Graphy and the control the and to open or the nate to o	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 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 Trug the numbers from the fact family triangle to the empty shapes to create two addition and two autoraction numbers sortected for the numbers 3.7, up do 10.	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 Use country: to help you solve this equation. Drug the clien countries into grace circle and then enter the correct number into the equation. 3 × = 21 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).