

Algebra

Compacted DesCartes

Patterns and Sequences

Below 171	Recognizes number patterns (e.g. 2, 5's, 10's, 50's, and 100's) Extends simple geometric shape patterns
171-180	Recognizes number patterns (e.g. 2's, 5's, 10's, 50's, 100's) Extends simple number and geometric shape patterns
181-190	Recognizes patterns in sets representing numbers, patterns in number tables, letter patterns, basic whole-number linear patterns Extends simple number and object patterns
191-200	Recognizes basic number patterns Extends simple object and letter patterns
201-210	Recognizes decimal and fraction linear patterns and simple growing patterns Analyzes patterns to identify rules Analyzes geometric patterns
211-220	Recognizes patterns in design and simple growing patterns Analyzes patterns in equations to identify rules and applies them to new patterns
221-230	Represents patterns using written descriptions (e.g. explains the rule) Recognizes and extends geometric sequences and extends triangular numbers
231-240	No skills addressed at this level
Above 240	Represents linear patterns using algebraic expressions

Expressions and Equations

191-200	Evaluates numerical expressions using grouping symbols (whole numbers only)
201-210	Same as above Uses simple equations and inequalities to represent problem situations Describes a realistic situation using information given in an equation
211-220	Uses simple equations and inequalities to represent problem situations
221-230	Describes and uses a variable in a contextual situation Represents relationships of quantities in the form of an expression Demonstrates an understanding of properties (e.g. commutative, associative, distributive, and properties of 0) Expresses a simple equation from a contextual situation
231-240	Evaluates numerical expression using the order of operations (whole numbers only) Represents relationships of quantities in the form of an expression Expresses a simple equation from a contextual situation

Functions

211-220	Completes a simple function table or function machine
221-230	Completes a function table according to a rule
231-240	Completes a function table according to a rule Represents real-world functions using an equation

