

Math DesCartes: Algebra, Functions, and Mathematical Models

Skills: Concepts of Functions (Patterns)

Students:	DesCartes Skills: <small>(Highlight the skills related to your chosen standard/concept)</small>
	RIT Above 260: <ul style="list-style-type: none"> Determines the minimum and maximum of a function
	RIT 251-260: <ul style="list-style-type: none"> Estimates the limit of a given infinite sequence (e.g., given the sequence $1/n$, as n gets larger) Determines the domain and range of a function Identifies the equation of a parabola Determines the vertex of a parabola Determines the effects of parameter changes on functions
	RIT 241-250: <ul style="list-style-type: none"> Represents linear patterns using algebraic expressions Uses an algebraic expression to represent exponential patterns Determines the domain and range of a function
	RIT 231-240: <ul style="list-style-type: none"> Recognizes and extends arithmetic sequences (linear patterns) Recognizes and extends the Fibonacci sequence
	RIT 221-230: <ul style="list-style-type: none"> Represents patterns using written descriptions (e.g., explains the rule) Recognizes and extends geometric sequences Recognizes and extends a sequence of triangular number
	RIT 211-220: <ul style="list-style-type: none"> Recognizes patterns in designs Recognizes simple growing patterns Analyzes patterns to identify rules Analyzes patterns in equations to identify rules Identifies rules and applies them to new patterns
	RIT 201-210: <ul style="list-style-type: none"> Recognizes decimal and fraction linear patterns Recognizes simple growing patterns Analyzes patterns to identify rules Analyzes geometric patterns
	RIT 191-200: <ul style="list-style-type: none"> Recognizes basic whole-number linear patterns Extends simple object patterns Extends simple letter patterns
	RIT 181-190: <ul style="list-style-type: none"> Recognizes patterns in sets representing numbers Recognizes patterns in number tables Recognizes letter patterns Recognizes basic whole-number linear patterns Extends simple number patterns Extends simple object patterns
	RIT 171-180: <ul style="list-style-type: none"> Recognizes number patterns (e.g., 2's, 5's, 10's, 50's, 100's) Extends simple number patterns Extends simple geometric shape patterns
	RIT Below 171: <ul style="list-style-type: none"> Recognizes number patterns (e.g., 2's, 5's, 10's, 50's, 100's) Extends simple geometric shape patterns

Lesson Title:

Standard/Concept for All:

For Students Ready for a Challenge:

Lesson/Activity:

Resources:

Means of Assessment:

For Most Students:

Lesson/Activity:

Resources:

Means of Assessment:

For Students Needing Extra Support:

Lesson/Activity:

Resources:

Means of Assessment:

Closure/Summary for All:

