

Arc of Learning for Moving Straight Ahead

The primary goal of *Moving Straight Ahead* is for students to develop an understanding of linear relationships. Students recognize linear relationships by the constant rate of change between two variables in a contextual situation, a table, a graph, or an equation.

Moving Straight Ahead: Linear Relationships					
Linear Relationships	Introduction Setting the Scene	Exploration Mucking About	Analysis Going Deeper	Synthesis Looking Across	Abstraction Going Beyond
Investigation 1: Walking Rates					
1.1 Walking Marathons: Finding and Using Rates	1.1				
1.2 Walking Rates and Linear Relationships: Tables, Graphs, and Equations	1.2				
1.3 Raising Money: Using Linear Relationships		1.3			
1.4 Using the Walkathon Money: Recognizing Linear Relationships		1.4			
Mathematical Reflections		MR			
Investigation 2: Exploring Linear Relationships With Graphs and Tables					
2.1 Henri and Emile's Race: Finding the Point of Intersection		2.1	2.1		
2.2 Crossing the Line: Using Tables, Graphs, and Equations			2.2		
2.3 Comparing Costs: Comparing Relationships			2.3		
2.4 Connecting Tables, Graphs, and Equations			2.4		
Mathematical Reflections			MR		
Investigation 3: Solving Equations					
3.1 Solving Equations Using Tables and Graphs			3.1		
3.2 Mystery Pouches in the Kingdom of Montarek: Exploring Equality		3.2			
3.3 From Pouches to Variables: Writing Equations			3.3		
3.4 Solving Linear Equations			3.4		
3.5 Finding the Point of Intersection: Equations and Inequalities			3.5	3.5	
Mathematical Reflections				MR	
Investigation 4: Exploring Slope: Connecting Rates and Ratios					
4.1 Climbing Stairs: Using Rise and Run			4.1		
4.2 Finding the Slope of a Line				4.2	
4.3 Exploring Patterns with Lines				4.3	4.3
4.4 Putting It All Together: Writing Equations for Linear Relationships				4.4	4.4
Mathematical Reflections					MR
Looking Back					LB