

LabLearner Math Concept Grade 6

CELL

Properties of Matter

- Calculating density
- Comparing (non)measurable characteristics
- Continuum scale
- Data analysis
- Data table
- Decimals
- Division
- Estimation
- Mass
- Parts/whole
- Place value
- Relationships
- Sequential order

Common Core State Standard

	Solve real-world & math problems involving area/surface area/volume	Understand ratio concepts and use ratio meanings to solve problems	Compute fluently with multi-digit numbers & find common factors/multiples	Apply & extend previous understandings of arithmetic to algebraic expressions	Apply/extend knowledge of multiplication/division to divide fractions	Represent/analyze quantitative relationships between (in)dependent variables	Apply/extend knowledge of numbers to the system of rational numbers	Reason about and solve one-variable equations and inequalities	Develop understanding of statistical variability
Calculating density	X	X	X						
Comparing (non)measurable characteristics						X			
Continuum scale							X		
Data analysis						X			
Data table						X			
Decimals							X		
Division				X					
Estimation									X
Mass									
Parts/whole		X			X				X
Place value							X		
Relationships					X				
Sequential order							X		

Subtraction
Volume
Volume displacement method

Weathering and Erosion

Comparing (non)measurable characteristics
Counting whole numbers
Data analysis
Data table
Decimals
Estimation
Greater than/less than/equal to
Length
Mass
Parts/whole
Place value
Problem solving
Quantitative properties
Relationships
Sequential order
Size, shape, form
Slope
Subtraction
Time
Volume

Space

Addition
Angles in degrees
Calculating averages
Comparing (non)measurable characteristics
Data analysis
Data table
Decimals
Division
Estimation
Fractions
Geometry
Greater than/less than/equal to
Length
Parts/whole
Patterns/trends
Place value
Problem solving
Relationships
Time

Kinetic and Potential Energy

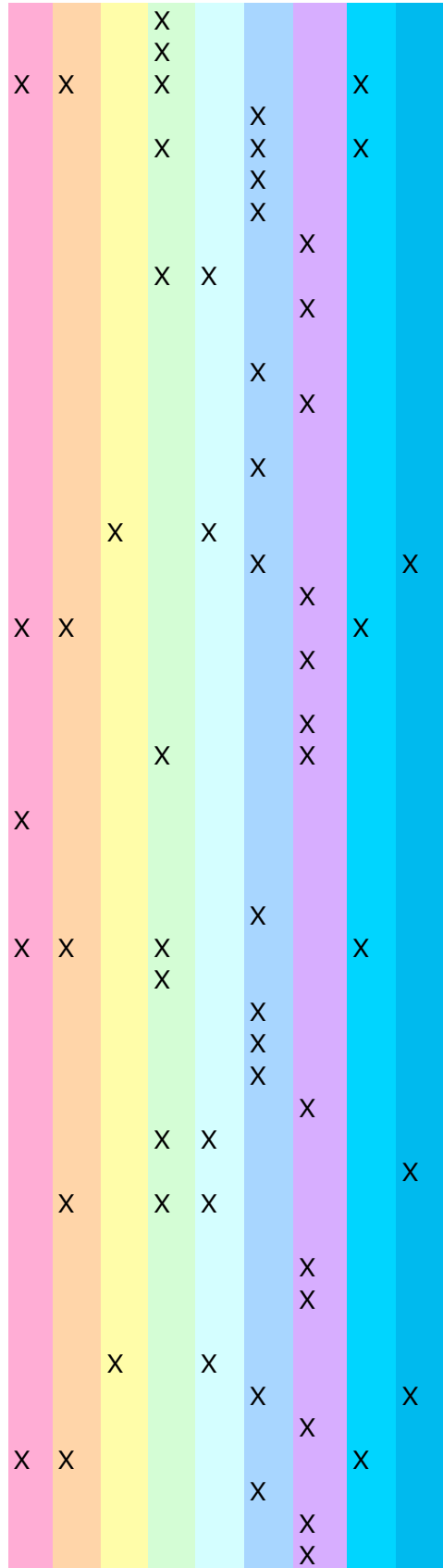
Addition

Concept	Column 1 (Pink)	Column 2 (Orange)	Column 3 (Yellow)	Column 4 (Light Green)	Column 5 (Light Blue)	Column 6 (Purple)	Column 7 (Cyan)
Subtraction		X	X				
Volume	X						
Volume displacement method	X						
Weathering and Erosion							
Comparing (non)measurable characteristics					X		
Counting whole numbers						X	
Data analysis					X		
Data table					X		
Decimals						X	
Estimation							X
Greater than/less than/equal to						X	
Length							
Mass							
Parts/whole		X		X			X
Place value						X	
Problem solving	X	X					X
Quantitative properties					X		
Relationships					X		
Sequential order						X	
Size, shape, form							
Slope					X		
Subtraction				X		X	
Time							
Volume	X						
Space							
Addition				X			
Angles in degrees							
Calculating averages				X			
Comparing (non)measurable characteristics					X		
Data analysis					X		
Data table					X		
Decimals						X	
Division				X	X		
Estimation							X
Fractions		X		X	X		
Geometry							
Greater than/less than/equal to						X	
Length							
Parts/whole		X		X			X
Patterns/trends					X		X
Place value						X	
Problem solving	X	X					X
Relationships					X		
Time							
Kinetic and Potential Energy							
Addition				X			

Calculating averages
 Calculating circumference
 Calculating mathematical formulas
 Comparing (non)measurable characteristics
 Constants/variables
 Data analysis
 Data table
 Decimals
 Division
 Greater than/less than/equal to
 Height
 In-dependent variables
 Least to greatest
 Length
 Line graph
 Mass
 Multiplication
 Patterns/trends
 Place value
 Problem solving
 Sequential order
 Size, shape, form
 Skip counting
 Subtraction
 Temperature
 Volume

Sound Waves and Pressure

Bar graph
 Calculating mathematical formulas
 Calculating speed
 Comparing (non)measurable characteristics
 Data analysis
 Data table
 Decimals
 Division
 Estimation
 Fractions
 Frequency
 Greater than/less than/equal to
 Least to greatest
 Length
 Multiplication
 Patterns/trends
 Place value
 Problem solving
 Relationships
 Sequential order
 Skip counting



Parts/whole
 Patterns/trends
 Place value
 Relationships
 Size, shape, form
 Skip counting
 Temperature
 Time
 Volume

Watersheds

Calculating averages
 Calculating discharge
 Calculating velocity
 Comparing (non)measurable characteristics
 Data analysis
 Data table
 Decimals
 Division
 Estimation
 Greater than/less than/equal to
 In-dependent variables
 Least to greatest
 Length
 Line graph
 Mass
 Patterns/trends
 Percentages
 Place value
 Problem solving
 Relationships
 Skip counting
 Subtraction
 Temperature
 Time
 Volume

	X		X			X
				X		X
					X	
				X		
					X	
	X					
			X			
			X			
			X			
					X	
		X	X			
					X	X
				X		
					X	
				X		
				X		X
					X	
			X		X	
					X	
	X	X				X
				X		
			X		X	
					X	
	X					