

**Grade 8 Mathematics Student Assessment Form**  
**Grade 8 Exit Expectations Checklist**

<b>Number Operations and Relationships</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>
Apply all operations to rational numbers		P		
Addition		P		
Subtraction		P		
Multiplication		P		
Division		P		
Identify irrational numbers		P		
Convert values greater than 1 and less than 0			P	
Fractions			P	
Decimals			P	
Percents			P	
Use divisibility rules to find				
GCF		P		
LCM		P		
Prime Numbers		P		
Understand reciprocals		P		
Understand negative exponents	D			
Apply the concept of percent to problem solving			P	
Extend and apply estimation to rational numbers		P		
Extend and apply mental math to rational numbers		P		
Problem solving strategies	P	P	P	P
<b>Probability and Statistics</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>
Predict possible outcomes	P			P
List possible outcomes	P			P
Interpret experimental possibilities				P
Interpret theoretical possibilities				P
Create tables	P			P
Create graphs	P		P	
Collect and organize data	P			
Analyze data	P			
Draw conclusions from data	P			
Calculate mean	P			
Calculate median	P			
Calculate mode	P			
Calculate range	P			

Create box and whisker plots	P			
Interpret box and whisker plots	P			
Create circle graphs			P	
<b>Geometry</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>
Apply concepts of				
Perimeter			P	
Area			P	
Volume				P
Angle measures			P	
Construct				
Acute angles			P	
Right angles			P	
Obtuse angles			P	
Straight angles			P	
Parallel lines			P	
Perpendicular lines			P	
Transversal lines			P	
Triangles			P	
Bisect				
Lines			P	
Angles			P	
Identify				
Adjacent angles			P	
Supplementary angles			P	
Complementary angles			P	
Vertical angles			P	
Similar angles			P	
Congruent angles			P	
Apply proportions in identifying similar figures		P		
Apply proportions in identify congruent figures		P		
Demonstrate transformations of geometric figures				
Reflections			P	
Translations			P	
Symmetry			P	



Subtraction		P		
Multiplication		P		
Division		P		
Apply percents to solve problems			P	
Apply ratios and proportions to solve problems		P		
Knowledge of				
Exponents	P			
Powers	P			
Square roots		P		
Evaluate				
Formulas	P		P	
Variable expressions	P			
Identify functions				P
Add like expressions	P			
Subtract like expressions	P			
Recognize pattern relationships				P
Describe pattern relationships				P
Analyze pattern relationships				P
Recognize and use				
Commutative property	P	P	P	P
Associative property	P	P	P	P
Distributive property	P	P	P	P
Conversion of				
Large numbers to scientific notation	P			
Small numbers to scientific notation	P			
Solve two-step equations	P			
Graph equations		P		P
Find slope and y-intercept		P		
Write equation for a line		P		
Solve systems of equations		P		
Use the Pythagorean Theorem		P		
Perform operations on polynomials and factor polynomials				P
Find sine, cosine, and tangent ratios			P	
Solve and graph equations with absolute value		P		