



ADAM[®] Detail Report
(Adaptive Diagnostic Assessment of Mathematics)

- ✓ Mastered or "on-grade" sub-test
 - ✗ Below grade sub-test
 - ➔➔ Skill to teach 1st in each sub-test
 - ➔ Next skill(s) to teach
- Red coloring indicates priority (below grade)

Student: **Isaac XXXX**
 Teacher: **Andrew Jacobsen**
 Assessment Date: **02/02/2018**
 Age: **12 yrs 1 months**
 Grade: **5.5**

Summary of Scores (Score Ranges by grade)

									02/02/2018	
K	1	2	3	4	5	6	7	Raw Score	Grade Level	
Numbers and Operations										
1-4	5-13	14-22	23-41	42-61	62-83	84-91	92-105	49	4.38	
Measurement										
1-2	3-4	5-12	13-18	19-26	27-31	NA	32-34	25	4.78	
Data Analysis										
1-1	2-4	5-9	10-12	13-16	17-21	22-27	28-36	17	5.17	
Geometry										
1-4	5-7	8-10	11-19	20-30	31-36	37-44	45-53	23	4.31	
Algebra										
1-1	2-4	5-6	7-13	14-20	21-25	26-31	32-43	23	5.5	
TOTAL										
0-12	13-32	33-59	60-103	104-154	155-196	197-224	225-271	137	4.65	

Numbers and Operations

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Numbers (0 to 4.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Place Value (<1 to 5.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Comparing and Ordering (0 to 4.9)				

All skills of this sub-test mastered.



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Addition of Whole Numbers (0 to 4.9)					
	Modeling addition and subtraction with objects		1	0.9	+
	Addition (Equivalent Forms)		2	1.3	+
	Addition (to 10)		3	1.6	+
	Addition (2 digit + 1 digit)		4	1.9	+
	Multi-digit Addition (Non-regrouping)		5	2.9	+
	Addition (Regrouping)		6	4.5	+
➔➔	Addition (Multiple Digits)	Isaac will add three- and four-digit numbers with regrouping.	7	4.9	-

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Subtraction of Whole Numbers (<1 to 4.9)					
	Subtracting (from 10)		1	1.9	+
	Multi-digit Subtraction (Non-regrouping)		2	2.9	+
➔➔	Subtraction (Regrouping)	Isaac will subtract multi-digit numbers with regrouping.	3	4.9	-



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Multiplication of Whole Numbers (<3 to 5.9)					
	Multiplication Readiness (Grouping and Repeated Addition)		1	3.2	+
	Multiplication Facts (Factors of 0 and 1)		2	3.5	+
	Multiplication Facts (Factors 2 to 10)		3	3.7	+
	Multiplication (Powers of Ten)		4	3.9	+
	Multiplication (Commutative, Associative, & Distributive Application)		5	4.3	+
	Multiplication (2 digit number by 1 digit number)		6	4.6	+
➔	Multiplication (3 digit number by 1 digit number)	Isaac will multiply a single digit by a three-digit number.	7	4.9	-
➔	Multiplication (2 and 3 digit number by a 2 digit number)	Isaac will multiply two- and three-digit numbers by a two-digit number.	8	5.5	NT
➔	Multiplication (Commutative, Associative, & Distributive Terminology)	Isaac will correctly identify the commutative, associative, and distributive properties.	9	5.9	NT
✗ Division of Whole Numbers (<3 to 5.9)					
	Modeling Division (As the Inverse of Multiplication)		1	3.3	+
	Division (1 Digit Divisor and Remainders)		2	3.6	+
	Division Facts		3	3.9	+
➔	Division (Whole Numbers)	Isaac will long divide, with no remainders.	4	4.9	-
➔	Division (4 Digits)	Isaac will divide four-digits numbers, with no remainders.	5	5.9	NT
✗ Fractions (<1 to 7.9)					
	Partitioning Objects into Parts		1	1.9	+
	Fractions (Representing & Comparing Fractions, like Denom or Num)		2	2.3	+



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	Fractions (as Parts of Sets)		3	2.6	+
	Fractions (Equivalent Fractions Using Shaded Circles)		4	2.9	+
➔➔	Fractions (Representing Fractions)	Isaac will represent fractions.	5	3.2	-
➔	Fractions (Equivalent Fractions)	Isaac will identify equivalent fractions.	6	3.3	NT
➔	Comparing Fractions	Isaac will compare fractions.	7	3.5	NT
➔	Ordering Fractions	Isaac will order fractions.	8	3.6	NT
➔	Fractions (as Decimals and Place Value Tenths and Hundredths)	Isaac will identify the decimal equivalent of a fraction.	9	3.8	NT
➔	Fractions (Solving Problems)	Isaac will solve word problems using fractions.	10	3.9	NT
➔	Fractions (Equivalent Fractions Lowest Terms)	Isaac will express fractions in the lowest terms.	11	4.2	NT
➔	Fractions (as Decimals and Place Value Tenth and Hundredth)	Isaac will express fractions as decimals.	12	4.3	NT
➔	Fractions (Comparing and Ordering)	Isaac will compare and order fractions.	13	4.5	NT
➔	Fractions (Least Common Multiple)	Isaac will calculate the least common multiple.	14	4.6	NT
➔	Fractions (Adding like Denominators)	Isaac will add fractions with like denominators.	15	4.8	NT
➔	Multiplying Fractions by a Whole Number	Isaac will multiply fractions by a whole number.	16	4.9	NT
➔	Fractions (Proper, Improper, and Mixed Fractions)	Isaac will identify proper fractions, improper fractions, and mixed numbers.	17	5.2	NT
➔	Fractions (Adding Unlike Denominators)	Isaac will add fractions with unlike denominators.	18	5.3	NT
➔	Subtracting Fractions	Isaac will subtract fractions.	19	5.5	NT
➔	Fractions (Multiplying Patterns of Fractions)	Isaac will multiply fractions.	20	5.6	NT
➔	Fractions (Multiplying & Dividing Fractions)	Isaac will multiply and divide fractions.	21	5.8	NT
➔	Solving Problems Using Fractions	Isaac will solve word problems using fractions.	22	5.9	NT
➔	Multiplying and Dividing Positive Fractions	Isaac will multiply and divide fractions.	23	6.5	NT
➔	Least Common Multiple & Greatest Common Factor	Isaac will calculate the least common multiple and greatest common factor.	24	6.9	NT
➔	Converting Fractions		25	7.5	NT
➔	Adding and Subtracting Fractions (Unlike Denominator)		26	7.9	NT



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Number Theory (<4 to 5.9)					
	Number Theory (Divisibility)		1	4.3	+
	Number Theory (Factors)		2	4.6	+
➔➔	Number Theory (Multiples)	Isaac will identify multiples.	3	4.9	-
➔	Number Theory (Prime/Composite Numbers)	Isaac will identify prime and composite numbers.	4	5.2	-
➔	Number Theory (Prime Factors)	Isaac will identify prime factors.	5	5.5	NT
➔	Number Theory (Common Greatest Factors)	Isaac will identify greatest common factors.	6	5.7	NT
➔	Number Theory (Divisibility Rules)	Isaac will use divisibility rules.	7	5.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Decimal Operations (<5 to 7.9)					
			0	<5	-
➔➔	Decimals (Adding and Subtracting)	Isaac will add and subtract decimals.	1	5.3	-
➔	Decimals (Multiplication & Money Notation)	Isaac will multiply decimals using money notation.	2	5.6	NT
➔	Decimals (Division)	Isaac will divide decimals.	3	5.9	NT
➔	Terminating and Repeating Decimals		4	7.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Percentages (<5 to 7.9)					
	Percentages (Percents & Fractions)		1	5.2	+
	Percentages (Percents & Decimals)		2	5.4	+
	Percentages (Ratios)		3	5.5	+
	Percentages (Proportions)		4	5.7	+
➔➔	Percentages (Estimating and Calculating)	Isaac will estimate percentages.	5	5.9	-
➔	Percentages (Calculate)	Isaac will calculate percentages.	6	6.9	NT
➔	Percentages (Increase and Decrease)		7	7.5	NT
➔	Discounts and Markups		8	7.9	NT



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Measurement

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Money (0 to 2.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Time (<1 to 3.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Temperature (<2 to 3.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗	Converting Units (More Complex) (0 to 5.9)				
	Comparative Vocabulary		1	0.9	+
	Measuring Length by Object		2	1.9	+
	Number Line		3	2.5	+
	Customary & Metric (Concepts of Length)		4	2.9	+
	Length (Customary and Metric Units)		5	3.9	+
	Customary (Length)		6	4.2	+
	Customary (Converting Units of Length)		7	4.3	+
	Customary (Comparing Units of Length)		8	4.5	+
	Metric (Length)		9	4.6	+
	Metric (Converting Units of Length)		10	4.8	+
	Metric (Comparing Metric Length)		11	4.9	+
➔	Converting Units (More Complex)	Isaac will convert units that require more than one step.	12	5.9	-



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Weight (<2 to 5.9)				

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗	Capacity & Volume (<2 to 5.9)				
	Customary (Capacity)		1	2.5	+
	Metric (Capacity)		2	2.9	+
→→	Capacity (Units of Measure)	Isaac will identify the appropriate unit for different measures of capacity.	3	3.9	-
→	Customary (Units of Capacity/Volume)	Isaac will compare and convert customary units of capacity.	4	5.5	NT
→	Metric (Comparing Metric Capacity/Volume)	Isaac will compare and convert metric units of capacity.	5	5.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗	Rate (<5 to 7.9)				
			0	<5	-
→→	Understanding Rate	Isaac will solve simple word problems involving rate.	1	5.5	-
→	Solving Problems Using Rate	Isaac will solve multi-step word problems involving rate.	2	5.9	NT
→	Comparing Rates	Isaac will solve more complicated word problems involving rates.	3	7.3	NT
→	Scale		4	7.6	NT
→	Solving Rate Problems		5	7.9	NT

Data Analysis

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Patterns & Sorting (0 to 2.9)				

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✓ **Data Representation (<1 to 2.9)**

All skills of this sub-test mastered.

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
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✗ **Simple Probability (<3 to 7.9)**

	Likelihood		1	3.9	+
	Simple Probability		2	4.9	+
➔➔	Estimating Future Events	Isaac will estimate the probability of future events, given present data.	3	6.9	-
➔	Representing Probabilities		4	7.5	NT
➔	Probability of Multiple Events		5	7.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
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✗ **Outcomes (<3 to 6.9)**

	Recording Outcomes		1	3.5	+
	Representing Results		2	3.9	+
➔➔	Representing Outcomes	Isaac will identify the correct tree diagram of possible results for compound events.	3	4.9	-
➔	Representing Possible Outcomes	Isaac will correctly identify possible outcomes for simple and compound events.	4	6.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
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✗ **Displaying Data (<4 to 7.9)**

	Interpreting Graphs		1	4.9	+
➔➔	Displaying Data	Isaac will identify the most appropriate type of graph for displaying various data.	2	5.5	-
➔	Comparing Data (Fractions and Percents)	Isaac will identify the correct fraction representations for percent for various data.	3	5.9	NT
➔	Data Representation		4	7.5	NT
➔	Scatterplots		5	7.9	NT



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗ Measures of Central Tendency (<4 to 7.9)					
	Mean, Median, and Mode (Conceptual)		1	4.9	+
➔➔	Mean, Median, and Mode (Computing)	Isaac will calculate mean, median, and mode from data presented in a table.	2	5.9	-
➔	Computing Measures of Central Tendency	Isaac will compute mean, median, mode, and range from give data.	3	6.3	NT
➔	Changing Central Tendency	Isaac will identify changes in measures of central tendency when the data set also changes.	4	6.5	NT
➔	Outliers	Isaac will identify how measures of central tendency change when an outlier is removed.	5	6.8	NT
➔	Use of Measures of Central Tendency	Isaac will solve word problems involving measures of central tendency.	6	6.9	NT
➔	Data Set Quartiles		7	7.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Ordered Pairs (<5 to 5.9)					

All skills of this sub-test mastered.

Geometry

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Location & Direction (0 to 0.9)					

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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗	2D Shapes (0 to 7.9)				
	2D Shapes (Shape Given)		1	0.5	+
	Comparing Shapes		2	0.9	+
	2D Shapes (Name Given)		3	1.5	+
	Shapes (Attributes)		4	1.9	+
	Describing Shapes		5	2.5	+
	Forming Polygons		6	2.9	+
	Polygons		7	3.9	+
	Identifying Congruency Figures		8	4.5	+
	Symmetry		9	4.9	+
→→	Elements of Geometric Figures	Isaac will identify attributes of polygons.	10	7.3	-
→	Translations and Reflections		11	7.6	NT
→	Solving Problems Involving Congruence		12	7.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	3D Shapes (<1 to 7.9)				
	3D Faces		1	1.9	+
	3D Shapes		2	3.5	+
	Composing 3D Shapes		3	3.9	+
	Qualities of 3D Figures		4	4.9	+
	Patterns for 3D Figures		5	7.5	+
→→	3D Geometric Elements		6	7.9	-

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Triangles (<3 to 7.9)				
	Triangles (Attributes)		1	3.5	+
	Right Angle Knowledge		2	3.9	+
	Triangle (Definitions)		3	5.9	+
→→	Solving for Unknown Angles	Isaac will solve for the missing angle in a triangle.	4	6.9	-
→	Pythagorean Theorem		5	7.9	NT



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✗ Quadrilaterals (<3 to 5.9)					

	Quadrilaterals (Attributes)		1	3.9	+
→→	Quadrilateral (Definitions)	Isaac will identify the correct definitions for given quadrilaterals.	2	5.9	-

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
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✗ Area & Perimeter (<2 to 7.9)					
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	Dividing Rectangles into Squares (Precursor to Area/Perimeter)		1	2.9	+
	Area (Square Units Shown)		2	3.3	+
→→	Area vs Perimeter (Figures with the Same Area, Different Perimeters)	Isaac will identify pairs of different rectangles with either the same area or same perimeter.	3	3.6	-
→	Solving for Area vs Perimeter	Isaac will identify the formulae for area and perimeter, and use them to calculate area and perimeter.	4	3.9	-
→	Area and Perimeter (Word Problems)	Isaac will solve word problems that involve calculating area and perimeter.	5	4.9	-
→	Units of Measure (2D & 3D Shapes)	Isaac will identify the correct unit of measurement when calculating perimeter and area.	6	5.9	NT
→	Area of Triangles and Parallelograms	Isaac will calculate the area of triangles and parallelograms.	7	6.9	NT
→	Perimeter, Area, and Volume		8	7.5	NT
→	Area of Complex Figures		9	7.9	NT

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✗ Lines (<4 to 4.7)					
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			0	<4	-
→→	Plotting Points of a Linear Equation	Isaac will plot points from a linear equation.	1	4.2	-
→	Horizontal Line Segment Length	Isaac will calculate the length of a horizontal line segment, given the points at which it begins and ends.	2	4.4	NT
→	Vertical Line Segment Length	Isaac will calculate the length of a vertical line segment, given the points at which it begins and ends.	3	4.5	NT
→	Parallel and Perpendicular Lines	Isaac will identify parallel and perpendicular lines.	4	4.7	NT



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✗ Circles (<4 to 6.9)					
			0	<4	-
→→	Qualities of a Circle	Isaac will identify attributes of circles.	1	4.9	-
→	Pi	Isaac will identify and use formulae for circumference and area of a circle.	2	6.5	NT
→	Calculating using Pi	Isaac will calculate circumference and area of circles.	3	6.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
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✗ Angles (<4 to 6.9)					
			0	<4	-
→→	Angles and Angle Measurement	Isaac will identify types of angles by their measurements.	1	4.9	-
→	Sum of Angles	Isaac will identify missing angles in a circle.	2	5.9	NT
→	Types of Angles	Isaac will identify relationships between angles.	3	6.9	NT

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✓ Volume & Surface Area (<5 to 7.9)					
	Surface Area		1	5.5	+
→→	Volume	Isaac will calculate volume of quadrilaterals.	2	5.9	-
→	Volume of Triangular Prisms and Cylinders	Isaac will calculate volume of triangular prisms and cylinders.	3	6.9	-
→	Surface Area and Volume of Complex Solids		4	7.9	NT



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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✗	Geometric Relationships (<6 to 7.9)		0	<6	-
→→	Using Variables in Geometric Equations	Isaac will use variables to solve geometric equations.	1	6.5	-
→	Expressing Geometric Relationship	Isaac will express relationships between 3D shapes.	2	6.9	NT
→	Changes of Scale		3	7.9	NT

Algebraic Thinking

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓	Relationships (0 to 4.9)				

All skills of this sub-test mastered.



ADAM[®] Detail Report
(Adaptive Diagnostic Assessment of Mathematics)

- ✓ Mastered or "on-grade" sub-test
 - ✗ Below grade sub-test
 - ➔➔ Skill to teach 1st in each sub-test
 - ➔ Next skill(s) to teach
- Red coloring indicates priority (below grade)

Student: **Isaac XXXX**
 Teacher: **Andrew Jacobsen**
 Assessment Date: **02/02/2018**
 Age: **12 yrs 1 months**
 Grade: **5.5**

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Expressions & Problem Solving (<1 to 7.9)					
	Number Sentences (Addition and Subtraction)		1	1.3	+
	Symbols		2	1.6	+
	Number Sentences and Problems (Addition and Subtraction)		3	1.9	+
	Problem Solving (Addition and Subtraction)		4	2.5	+
	Problem Solving Using Data (Addition and Subtraction)		5	2.9	+
	Selecting Operations		6	3.9	+
	Mathematical Expressions (Using Parentheses)		7	4.5	+
	Order of Operations (with Parentheses)		8	4.9	+
	Using Distributive Property		9	5.9	+
➔➔	Writing Algebraic Expressions	Isaac will identify the correct expression when given the same in words.	10	6.3	-
➔	Equivalent Expressions	Isaac will identify the expression that is equivalent to a given expression.	11	6.5	NT
➔	Applying Order of Operations	Isaac will simplify expressions, by applying the order of operations, including exponents.	12	6.8	NT
➔	Solving Problems Using Order of Operations	Isaac will solve problems by applying knowledge of the order of operations.	13	6.9	NT
➔	Writing Expressions	Isaac will write expressions and equations to represent a given scenario.	14	7.2	NT
➔	Using Order of Operations to Evaluate Expressions	Isaac will simplify expressions using the order of operations.	15	7.4	NT
➔	Simplifying Expressions		16	7.6	NT
➔	Positive Whole Number Powers		17	7.8	NT
➔	Multiplying and Dividing Monomials		18	7.9	NT



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Student: **Isaac XXXX**
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Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Equations (<3 to 7.9)					
	Problem Solving (with Equations/Inequalities)		1	3.5	+
	Functional Relationships (Problem Solving)		2	3.9	+
	Concept of Variables		3	4.3	+
	Formulas		4	4.6	+
	Simple Equations		5	4.9	+
	Problem Solving and Data		6	5.3	+
➔➔	Solving by Substitution	Isaac will solve one-step equations using the substitution method.	7	5.6	-
➔	Solving Linear Functions	Isaac will solve one-step linear functions.	8	5.9	NT
➔	Solving One-Step Linear Equations	Isaac will solve one-step linear equations.	9	6.5	-
➔	Solving One-Step Inequalities	Isaac will solve one-step inequalities.	10	6.9	NT
➔	Algebraic Terminology	Isaac will identify and use algebraic vocabulary (constant, coefficient, equation, expression, etc).	11	7.3	NT
➔	Solving Two-Step Linear Equations		12	7.6	NT
➔	Solving Multi-Step Rate Problems		13	7.9	NT

Sub-Test	Section Title	Instructional Goal	Section Score	Gr. Lv. Score	02/02/2018
✓ Graphing Algebraic Relationships (<5 to 7.9)					
	Coordinate Plane		1	5.9	+
➔➔	Graphic Representations	Isaac will identify different graphic representations of information.	2	7.3	-
➔	Graphing Functions		3	7.5	NT
➔	Slope		4	7.8	NT
➔	Plotting Set Ratios		5	7.9	NT