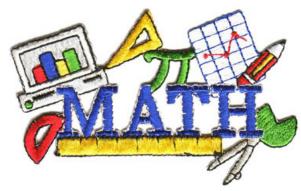
# How to "read" a math assessment test from Let's Go Learn



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Screenshots showing how to 'read' math assessment tests from Let's Go Learn including:

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### **Assessment Tests Analyzed - (Math)**

## ADAM K-7

## **Diagnostic Assessment and Progress Monitoring Report**

## **Detailed Report**

#### ADAM (Adaptive Diagnostic Assessment of Mathematics) K-7

ADAM K-7 is Let's Go Learn's newest assessment built upon the OAASIS™ II platform. It takes individualized student assessment to a new level by using more sophisticated algorithms that adjust to student responses in real-time. Furthermore, the fundamental design of ADAM departs from political conventions of defining mathematics tests primarily by accountability definitions. ADAM K-7, while covering the 5 strands of NCTM and National Common Core Standards, uses instead a 44 sub-test model for diagnostic assessment and progress monitoring. These sub-tests represent 44 linear skills that make up K-7 mathematics. The other important feature of ADAM K-7 is that it has built-in progress monitoring. Individual strands (Numbers & Operations, Measurement, Data Analysis, Geometry, Algebra) can be assessed individually for targeted progress monitoring. This fundamentally expands the scope in which ADAM K-7 can be used.

#### **Confidential Student Information**

Student: Dwight

Assessment Date: 05/29/2012

Grade: 5.9

Age: 11 yrs 1 months

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www.LetsGoLearn.com - help@letsgolearn.com

#### ADAM K-7

Here is the front cover of what the test results will look like.

You will see the "version" of the test...in this case "ADAM K-7."

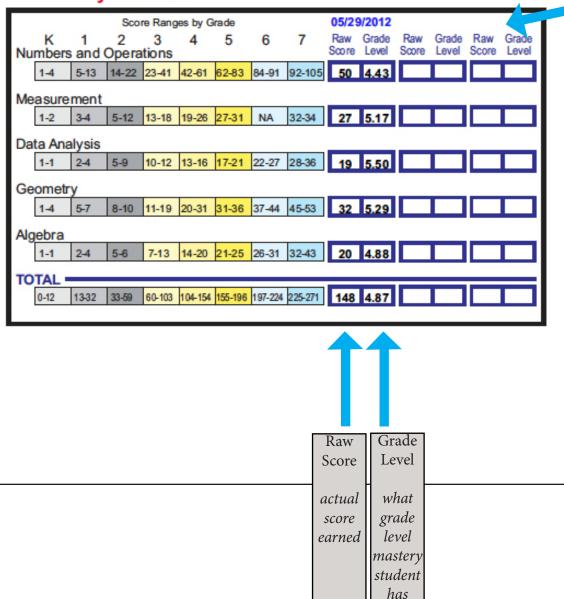
This beige paragraph is worth a read through. It talks about how the test is "adaptive" (questions get harder or easier depending on student's progress) AND what the measurement constructs are below.

You will see the student's name, date they took test, grade, and age.



ADAM™ K-7 - Detail Report Summary Page (Adaptive Diagnostic Assessment of Mathematics K-7) Student: Dwight Age: 11 yrs 1 months Grade: 5.9

#### **Summary Scores**



Here is the first page of the report.

A summary overview of performance.

This graph offers some general insight into the student's mastery level.

#### Let's Go Learn

ADAM™ K-7 - Numbers & Operations Strand Detail (Adaptive Diagnostic Assessment of Mathematics K-7)

Student: Dwight Age: 11 yrs 1 months Grade: 5.9

Test Date 1: 05/29/2012

Test Date 2:

Test Date 3:

- + represents mastery for each construct within each testing date.
- represents a non-mastery.
- nt indicates that the construct or sub-test was not tested.

irst (-) Sign Above a	A.
) Sign is the Student's Instructional Point	1

Sub- test	Section Title (Constructs)	Raw Score	Grade Level Score	1	2
Numb	pers				
	Rounding (10s, 100s, 1,000s)	10	49	+	
	Rounding	9	3.9	+	
	Comma & Place Holder	8	3.5	+	
	Counting (by hundreds and thousands)	7	29	+	
	Text and Numerals	6	26	+	
	Counting (by 1s 2s 3s 5s and 10s)	5	23	+	
	Numerals (2 digit)	4	19	+	Γ
	Cardinal & Ordinal #'s	3	1.5	+	Γ
	Counting Backwards	2	0.9	+	Γ
	Numerals	1	0.5	+	Γ
Place	Value			_	_
	Place Value. Decimals.	6	5.9	+	Γ
	Place Value (Thousand, Ten Thousand, Hundred Thousand, Millions)	5	4.9	+	
	Place Value - Expanded Form	4	3.9	+	T
	Place Value (Thousand, Ten Thousand and Hundred Thousand)	3	3.5	+	
	Place Value	2	29	+	Γ
	Place Value	1	19	+	T
Comp	paring and Ordering				_
	Decimals (Comparing & Ordering)	6	49	-	Γ
	Comparing & Ordering	5	4.5	Г	
	Money (equiv and non-equiv numbers using money)	4	3.9		
	Comparing Using Symbols (3-digits)	3	29	П	
	Comparing Using Symbols (2-digits)	2	19	П	
	Comparing (0-10)	1	0.9	П	
Addit	ion of Whole Numbers				
	Addition (Multiple Digits)	7	4.9	П	
	Addition (Regrouping)	6	4.5	Ħ	
	Multi-digit Addition (non-regrouping)	5	29	Ħ	
	Addition (2-digit + 1-digit)	4	1.9	Ħ	
	Addition- ( to 10)	3	1.6	Ħ	
	Addition- Equivalent Forms	2	1.3	Ħ	
	Modeling addition and subtraction with	1	0.9	Ħ	

	Sub- test	Section Title (Constructs)	Raw Score	Grade Level Score	1	2	3
t	Subtr	action of Whole Numbers					
Ī		Subtraction (Regrouping)	3	4.9	+		
I		Multi-digit Subtraction (non-regrouping)	2	29	+		
I		Subtracting from 10	1	1.9	+		
I	Multip	plication of Whole Numbers					
I		Multiplication (Commutative, Associative, Distributed)	9	5.9	nt		
ļ		Multiplication (Two and three digit numbers by a two digit)	8	5.5	nt		
l		Multiplication (Three digit numbers by a single digit numbers)	7	4.9	nt		
		Multiplication (Two digit numbers by a single digit)	6	4.6	nt		
ļ		Multiplication (Commutative, Associative, Distributed)	5	4.3	-		
		Multiplication (Powers of Ten)	4	3.9	-		Г
Ì		Multiplication Facts (Factors 2 to 10)	3	3.7	+		
Ì		Multiplication Facts (Factors of 0 and 1)	2	3.5	+		
		Multiplication Readiness (grouping and repeated addition)	1	32	+		
t	Divisi	ion of Whole Numbers					
Ì		Division (four digits)	5	5.9	+		
ì		Division (Whole Numbers)	4	4.9	+		

The following pages will show a more detailed breakdown of subtopics and subskills.

NT = not tested(either because it was too easy or too hard)

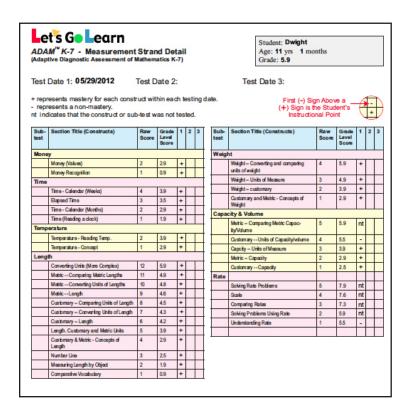
- + means tested & mastered for grade level
- means tested & they need help there

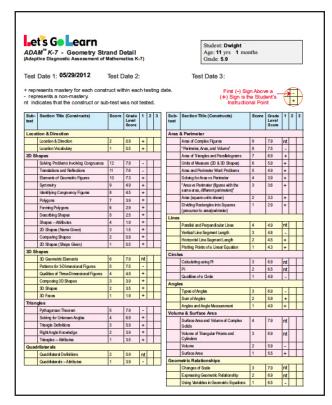
let's Go Learn

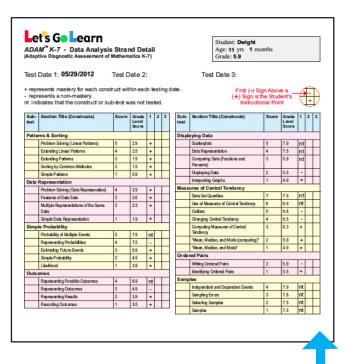
Student; Dwight Age: 11 yrs 1 months Grade: 5.9

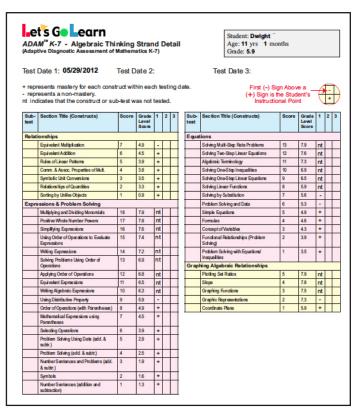
														_
Sub- test	Section 'Itrie (Constructs)	Raw Score	Grade Level Scom	1	2	3		Sub- teet	Section Title (Constructs)	Raw Score	Grade Level Score	1	2	3
Fract	ions						1	Decin	nal Operations					Т
	Adding and Sabtracting Fractions (unlike	26	7.9	mt	Г		1		Terminating and Repeating Decimals	4	T.B	nt		Γ
	danaminator)			L	L				Decimals (Division)	3	5.9	nt		
	Converting Fractions	25	75	mt	╙		H		Desired's (Multiplication & Money	2	6.8	nt	Г	Γ
	Land Common Multiple & Greatest Common Factor	36	6.9	nt			H		Notation	_		L	L	╀
	Nullights and Dividing Positive Free-	20	8.5	nt	Н	Н	ł		Decimals (Adding and Subtracting)	1	5.3	-	L	L
	tions.	_		Г"			ŀ	Perce	ntages		1		_	_
	Solving Problems Using Fractions	72	59	mt			Ì.		Discounts and Markups	8	7.9	nt	L	╀
	Fractions (Multiplying & Dividing	21	5.8	nt	П		1		Percentage Increase and Decrease	7	1.5	nt	H	╀
	Fractions)			┖	┖		ŀ	_	Calculate Percentages	8	6.0	nt	H	╀
	Fractions (multiplying patterns of fractions)	20	5.6	nt					Percentages (setimating and calculating)	5	6.9	nt	L	L
	Subtracting Fractions	19	55	mt			[ .		Percentages (Proportions)	4	57	nt	L	L
	Fractions (Addingunille denomination)	18	53	mt			1		Percentages (Ratios)	3	6.5	nt	L	L
	Fractions (proper, improper, and mixed	17	5.2	mt			1		Percentages (percents & decimals)	2	6.4	nt	L	L
	Frediors)			┖	┖		IJ		Percentages (percents & fractions)	1	5.2	-	L	L
	Multiplying Fractions by a whole number	16	49	mt	╙			Ratio	s and Preportions				_	
	Fractions (Adding like describation)	15	4.8	mt	┡		IJ		Using Proportions to Salve Problems	2	7.9	nt	L	L
	Fractions (fasal common multiple)	14	48	-	╙		IJ		Interpreting and Using Ratios	1	6.9	nt	L	L
	Fractions (Comparing and Ordering)	13	45	mt			IJ	Positi	ive and Negative Integers					
	Frections (as decimals and place value tenth and hundredth)	12	4.3	-					Multiplying and Dividing Negative Numbers	6	7.2	nt		Г
	Fraction (equipment fractions lowed terms)	11	4.2	*					Adding and Subtracting Nagative Numbers	5	7.1	nt	Г	Γ
	Frediors (sdring problems)	10	39	*			[ ]		Abadiste Value	4	6.9	nt	Г	Г
	Fractions (as declinate and place value tenth and hundredth)	9	3.6	*					Solving Problems with Integer Operations	3	6.7	nt	Г	Γ
	Ordaing Factions	8	38	*			[ ]		Ordering Rational Numbers	2	6.5	nt	Г	t
	Comparing (Facilities)	T	35	*			1		Positive and Negative Numbers	1	62	nt	Г	T
	Fractions (Equipment fractions)	6	3.3	+			1	Екре	nents		•	_	_	_
	Fractions (Representing Fractions)	6	32	+			ľ		Rational Numbers and Exponent Rules	6	7.9	nt		Т
	Fredion (equivelent fredions)	4	29				Ī		SquareRects	5	T.B	nt	Н	t
	Fractions (as parts of sets	3	26	*			1		Negative Week Number Exponents	4	7.7	nt		t
	Fractions (Representing & comparing fractions, like diamen or num)	2	2.3	+			1		Indicad Numbers	3	7.6	nt		İ
_	Partitioning dijeds into parts		19		Н	Н	H		Rational Integer Operations and Players	2	7.5	nt		L
Missel	er Theory	1	13		_	L	- ]		Scientific Notation	1	1.3	nt		L
Marin II	Number Theory (Christolly rules)	т	59	int			+							
_		6	5.7	nt	Н	Н	ł							
	Number Theory (Common greates) factors)	-			L									
	Number Theory (Prime Factors)	5	55	mt			1							
	Number Theory (prime/composite numbers)	4	5.2	nt										
	Number Theory (Muliples)	3	49	nt										
	Number Theory (Factors)	2	4.5	mt			I							

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The following pages (pictured) are more breakdowns of specific areas of what was tested.

+ = mastered

- = need help



## DOMA Pre-Algebra Assessment Report

#### Confidential Information

Student: Molly

Assessment Date: 07/05/2012

Grade: 10.9

Age: 15 yrs 0 months

#### DOMA (Diagnostic Online Math Assessment) Pre-Algebra Overview

DOMA Pre-Algebra was built on the Let's Go Learn OAASIS™ platform, which uses adaptive assessment technology to intelligently decide which specific test items will be given to each student. Based on individual student performance during the assessment, DOMA, with OAASIS's help, adjusts in difficulty, item selection, and construct selection. These adaptations allow DOMA to measure a wide range of student abilities efficiently and accurately.

Part I: Pre-Screening: This section presents students with questions aligned to most of the 14 Pre-Algebra constructs that have been determined to encompass the prerequisite knowled necessary for success in Algebra I. The 14 Pre-Algebra constructs are aligned to NCTM standards. The majority of the questions in this section require students to key in answers, thus reducing the chance that they will guess correct answers, which can skew results. Based on the Pre-Screening results, students may test out of constructs on which they have demonstrated mestery. Constructs in Part II of this assessment may be skipped or abbreviated based on performance.

Part II: Pre-Algebra Constructs: This part of DOMA contains the detailed test items that make up each of the 14 Pre-Algebra constructs. Construct selection will vary depending on the student's performance. A high error\* rate may terminate a construct before a student has completed all of its questions.

Part III: Foundation Skills: If students' errors demonstrate a possible deficit in multiplication math facts or reading comprehension, this section is given. Otherwise, it will be skipped.

"See "Interpreting Pre-Algebra Scores." www.letsgolearn.com/media/PDFs/InterPreA.pdf

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#### DOMA PRE-ALGEBRA

Here is the front cover of what the test results will look like.

You will see the "version" of the test...in this case "Pre-Algebra"

You will see the student's name, date they took test, grade, and age.

This blue paragraph is worth a read through. It talks about how the test is "adaptive" (questions get harder or easier depending on kid's progress)

AND what the measurement constructs are below.



#### Pre-Algebra Diagnostic

Student: Molly Assessment Date: 07/05/2012 Grade: 10.9

Diagnostic Summary	- ( 7 o	ut of 14 constructs mastered)
Part I - Prescreening	% of Past Europped	resurts
Prescreening	28.6	Coordinate Graphing
Part II - Pre-Algebra	Results	Linear Func. & Exte. Pat
Integer Operations		Simple Equations
Fraction Operations	•	Geometry
Decimal Operations		Interpreting Data
Comparing & Converting	0	Simple Probability
Estimating & Rounding	0	Part III - Foundation Skills % Correct
Evaluating Exponents		Timed Multi. Math Facts N/T
Ratios and Proportions	0	Untimed Mult. Math Facts N/T
Simplifying Expressions	0	Reading Comp.(5th gr level) 100

#### Test Question Legend

- Tested Correctly
   Tested Incorrectly
- N/T Not Tested





Non-mastery of Construct\*

Mostary of a construct is determined by the student either correctly answering the corrects answering 75% or more of the questions in the full construct set. Partial mastery is determined by full construct isoting and a percent correct of greater than 50% but less than 75%. Here at the top is an overview of the kid's performance on the different skills.

Full green circle =
mastery
Half yellow circle =
partial mastery
Red open circle =
needs help

Then below is each concept broken down even more specifically.

nt = not tested (either because it was too easy or too hard)

- + means tested & mastered
- means it was tested & they need help there

#### Construct 1: Integer Operations

mastery demonstrated by Fre-Screening	
Test Question	Results
Adding two positive numbers	nt
Subtracting two positive numbers	nt
Multiplying two positive numbers	nt
Adding a positive and a negative	nt
Adding two negative numbers	nt
Subtracting a negative and a positive	
Subtracting two negative numbers	nt
Dividing two negative numbers	nt
Multiplying a positive and a negative	
Dividing a positive and a negative	nt 🧦
Absolute value	nt

Construct 2: Fraction Operations
 Mactory demonstrated by Pre-Screening

Fraction identification ......nt

Subtracting fractions with the same denominator .. Int

Dividing fractions \_\_\_\_\_nt

Adding mixed numbers with regrouping ......nt

Dividing mixed numbers \_\_\_\_\_\_nt

Test Question

#### Construct 4: Comparing and Converting

#### Non-mastery demonstrated by construct testing

Test Question	Results
Converting a fraction to a decimal	+
Converting a decimal to a fraction	
Converting a decimal to a percent	+
Converting a percent to a decimal	+
Converting a percent to a fraction	
Converting a fraction to a percent	
Ordering fractions	
Ordering mixed numbers	
Ordering fractions, decimals, and percents	nt
Ordering fractions, decimals, and percents	nt

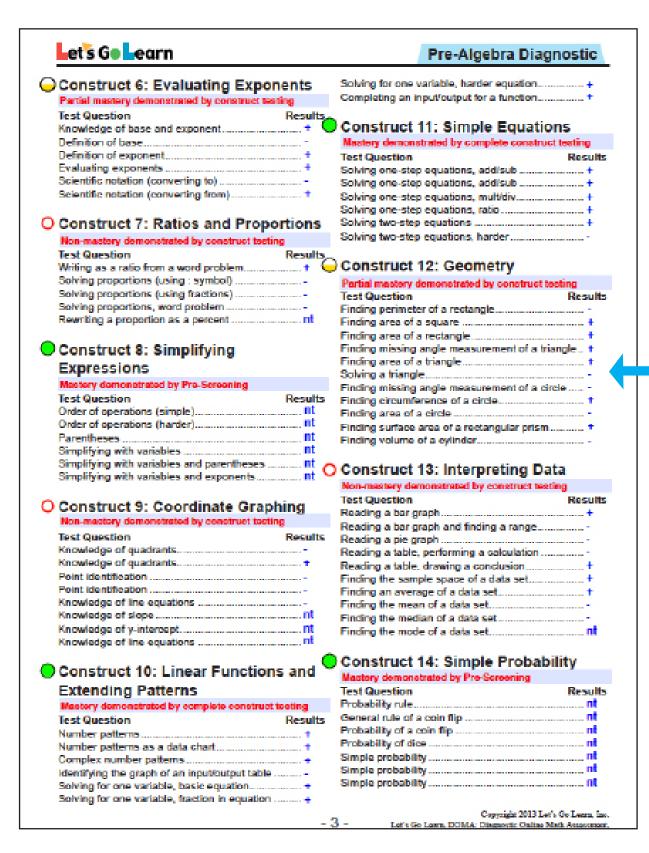
#### O Construct 5: Estimating and Rounding

#### Non-mastery demonstrated by construct teeting

Test Question	Results
Estimating measurement	<del>†</del>
Estimating measurement (metric)	
Rounding whole numbers (hundreds)	
Rounding whole numbers (ten-millions)	
Rounding decimals (hundredths)	nt
Rounding decimals (ten-thousandths)	nt

Construct 3: Decimal Operations
 Mastery demonstrated by complete construct testing

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Full green circle =
mastery
Half yellow circle =
partial mastery
Red open circle =
needs help

nt = not tested
(either because it
was too easy or too
hard)

- + means tested & mastered
- means it was tested & they need help there

These assessment tests can show you exactly where to focus for reinforcement!



## DOMA: Algebra Assessment Report

#### Confidential Information

Student: Tom

Assessment Date: 2/08/2005

Grade: 8.5

Age: 14 yrs 7 months

#### You will see the student's name, date they took test, grade, and age.

DOMA: ALGEBRA

Here is the front cover

of what the test results will look like.

You will see the "version" of the test...in this case "Algebra"

## This blue paragraph is worth a read through.

It talks about how the test is "adaptive" (questions get harder or easier depending on kid's progress) AND what the measurement constructs are below.

#### DOMA (Diagnostic Online Math Assessment) Algebra Overview

DOMA Algebra was built on the Let's Go Learn OAASIS™ platform, which uses adaptive assessment technology to intelligently decide which specific test items will be given to each student. Based on individual student performance during the assessment, DOMA, with OAASIS's help, adjusts in difficulty, item selection, and construct selection. These adaptations allow DOMA to measure a wide range of student abilities efficiently and accurately.

Part It Pre-Screening: This section presents students with two questions for each of 11 Algebra constructs that have been determined to encompass the knowledge necessary for success in Algebra I. The 11 Algebra constructs are aligned to NCTM standards. Based on their Pre-Screening results, students may test out of constructs on which they have demonstrated mastery. Constructs in Part II of this assessment may be skipped or abbreviated based on performance.

Part II: Pre-Algebra Constructs: This part of DOMA contains the detailed test items that make up each of the 11 Algebra constructs. Construct selection will vary depending on the student's performance. A high error\* rate may terminate a construct before a student has completed all of its questions.

"See "Interpreting Algebra Scores." www.letsgoleam.com/media/PDFs/InterAlg.pdf

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#### Algebra Diagnostic

Student: Tom Assessment Date: 2/08/2005 Diagnostic Summary - ( 6 out of 11 constructs mastered ) Part I - Prescreening 75.1 % Correct Prescreening ..... Solv. & Grap. Sys. of Lin Equ.. Q Part II - Algebra Results Polynomial Operations ...... O Eval. Adv. Exponents ...... Factoring Polynomials ...... Solving Linear Equations...... Radical Expressions & Equ .... Q Graph & Analyze Linear Equ .. • Quadratic Expressions ...... Relations & Functions. ..... O Solving & Graphing Inequal.... • Rational Expres. & Equ. ...... Grade: 8.5

#### Test Question Legend

- Tested Correctly Tested Incorrectly
- N/T Not Tested
- Mastery of Construct\* Partial Mastery of Construct\*
  - Non-mastery of Construct\*

\* Mastery of a construct is determined by the student either correctly answering the corresponding pre-screening question or correctly answering 75% or more of the questions in the full construct set. Partial mastery is determined by full construct testing and a percent correct of greater than 50% but less than 75%.

#### Construct 1: Evaluating Advanced Exponents

#### Mastery demonstrated by Pre-Screening Test Question

mastery administration by the deletering		
Test Question Re	esult	8_
Zero exponent rule	nt	
Applying a negative exponent		
Multiplying monomials	nt	
Dividing monomials	nt	
Applying negative exponents to variables	nt	
Multiplying in scientific notation	nt	
Dividing in scientific notation	nt	

Construct 4: Relations and Functions

#### Mastery demonstrated by complete construct testing

Test Question Re	sults
Identifying a function from a relation	. +
Completing the input/output for a function	. +
Identifying range/domain	. +
Identifying a graph from a relation chart	
Writing a function from data	. +
Identifying a function from a graph	
Using a stem and leaf table	.+

Construct 2: Solving Linear Equations

#### Mastery demonstrated by Pre-Screening Test Question

Solving a multi-step equation	nt	(
Solving an equation with no solution set	nt	
Solving an equation with an infinite solution set		
Isolating variables	nt	
Solving a word problem involving percent		
Solving absolute value equations	nt	

Results Construct 5: Solving and Graphing Inequalities

Mastery demonstrated by complete construct testing

Test Question	Results
Solving a linear inequality	+
Solving an absolute value inequality	+
Solving a compound inequality	+
Graphing a two-variable inequality	
Graphing an inequality system	

Construct 3: Graph and Analyze Linear Equations

## Mastery demonstrated by complete construct testing

lest Question	Resu
Graphing an equation	+
Graphing an absolute value equation	
Deriving an equation from a graph	+
Deriving an equation from the y-intercept	
and slope	<b>+</b>
Deriving an equation from two points	+
Writing an equation for a parallel line	<b>*</b>
Writing an equation for a perpendicular line	
Verifying a point on a line	+
Determining perimeter of a polygon from	
coordinates	

#### Results Construct 6: Solving and Graphing Systems of Linear Equations

Non-mastery demonstrated by construct testing

-2-

Test Question	Results
Solving systems using substitution	+
Solving systems using addition	
Solving systems using subtraction	+
Solving systems using multiplication	
Identifying parallel line solution sets	
Identifying infinite solution sets	+
Graphing systems	
Solving three-variable systems	

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Here at the top is an overview of the student's performance on the different skills.

Full green circle = mastery Half yellow circle = partial mastery Red open circle = needs help

Then below is each concept broken down even more specifically.

nt = not tested(either because it was too easy or too hard)

- + means tested & mastered
- means it was tested & they need help there

#### Let's Go earn

#### Algebra Diagnostic

## Construct 7: Polynomial Operations O Construct 11: Rational Expressions Non-meetery demonstrated by construct testing and Equations

mon-mestery demonserated by conscreet teating		
Test Question	Results.	
Adding polynomials		
Subtracting polynomials	<del>-</del>	
Multiplying a monomial by a polynomial		
Multiplying polynomials		
Squaring polynomials		
Evaluating a polynomial		
Solving polynomial equations		
Finding the additive inverse of a polynomial	nf	
Construct 8: Factoring Polynomera	omials	
Non-mastery demonstrated by construct testi		
Test Question	Results	
Factoring binomials		
I SECOND II SE LEE BARE BARE DE LE CONTRA LE C		

and Equations	
Non-mastery domonstrated by construct testic	ng
Test Question	Results
Identifying exclusions in the denominator	
Simplifying rational expressions	
Multiplying rational expressions	
Dividing rational expressions.	
Adding rational expressions with like	
denominators.	nt
Subtracting rational expressions with like	
denominators	nt
Adding rational expressions with unlike	
denominators.	nt

denominators nt Solving rational equations nt

Subtracting rational expressions with unlike

Full green circle =
mastery
Half yellow circle =
partial mastery
Red open circle =
needs help

Construct 9: Radical Expressions and Equations

Mastery demonstrated by complete construct testing
Test Question Results
Simplifying radical expressions without variables ... •
Simplifying radical expressions with variables .... •
Rationalizing the denominator of a rational expression .... •
Adding radical expressions .... •
Subtracting radical expressions .... •
Multiplying radical expressions ... •
Solving radical expressions ... •

nt = not tested (either because it was too easy or too hard)

+ means tested & mastered

- means it was tested & they need help there

Construct 10: Quadratic Equations

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These assessment tests can show you exactly where reinforcement is needed!

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