



youinspire

2023 GED CONFERENCE

Targeting Instruction Using Assessment Principles

New York, New York

July 18–20

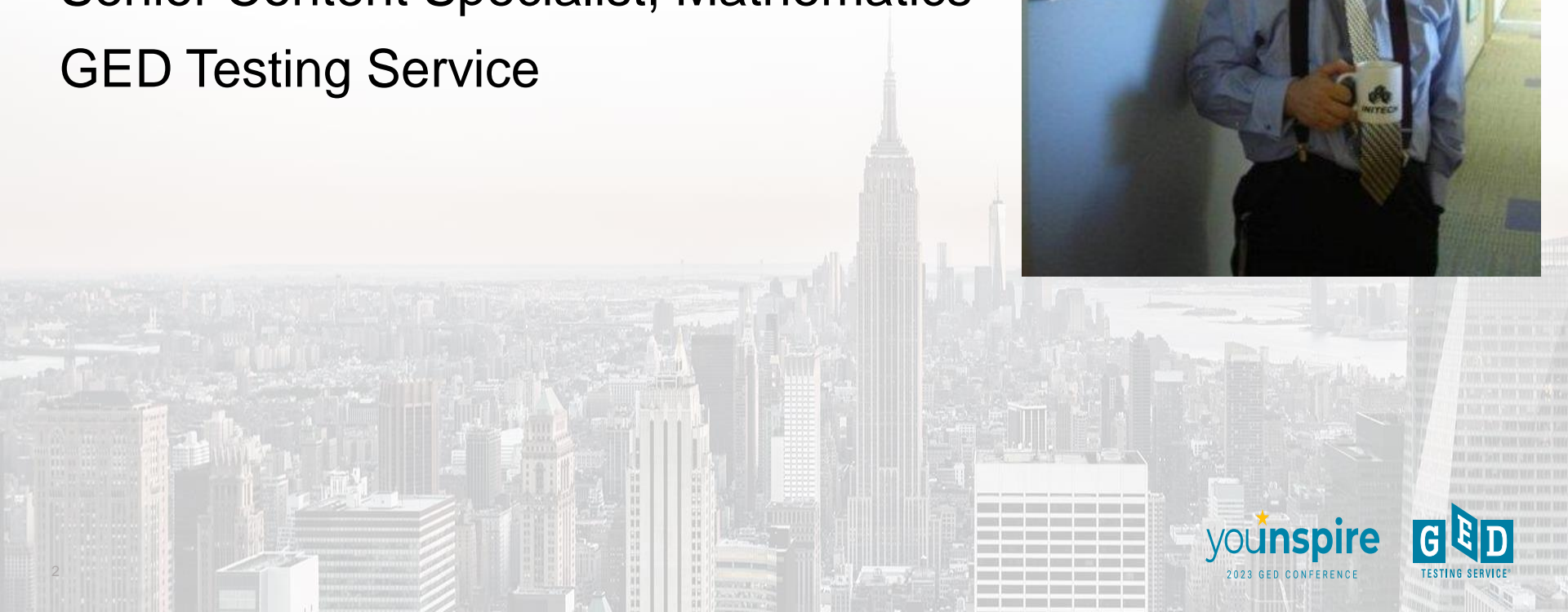


Greetings and Welcome!

Michael Bell

Senior Content Specialist, Mathematics

GED Testing Service



General Announcements

This presentation will be posted.

We will be stopping occasionally for questions, with a general Q&A afterward.

This is a math-centric presentation, but many of the principles apply generally to all content areas.

Questions before we begin?

Getting to Know You

Show of hands:

- Educators?
- New York?
- Comfortable teaching math?
- Attended a GED conference before?
- Attended a Tuesdays for Teachers session?

Today's Focus

GED is administered on a state-by-state basis, so there is some disparity and inconsistency in educators' knowledge about the test, and thus, how best to help their students.

This session will present information about the GED Mathematical Reasoning test that will help teachers to target their instruction in mathematics.

Importance of Mathematics

Over the past several years, GED Testing Service has tracked over 150,000 test takers who have passed the GED® test in 3 of the 4 subject areas.

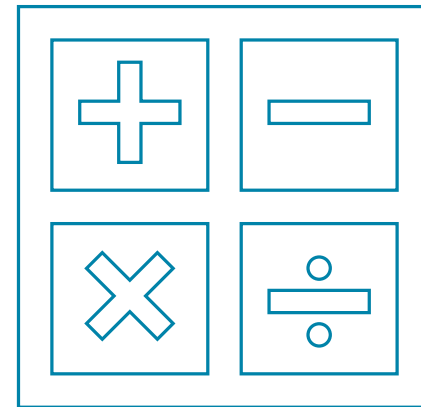
Subject left to pass:

- 3% Science
- 5% Social Studies
- 12% RLA
- **80% Math**

What We Will Be Covering

- General background info
- Item/test development
- Skills assessed
- Test items
- Gaps in student skills and knowledge

- Resources for adult educators



Important Note

There are differences between the GED **test** and the instruction that takes place in the **classroom**.

Just because a concept isn't included on the test, it does **not** mean it shouldn't be covered in the classroom.

Instruction does **not** need to strictly emulate the test.

What's the Best Instructional Strategy?

The one that works
for **YOUR** students

General Information and Test Development

General Information

The GED test is given primarily at Pearson testing centers. It may be taken online at home via OnVUE.

The Mathematical Reasoning test includes a section of non-calculator items and a section of items where a calculator is available.

Test takers have a variety of testing tools to assist them during the math test.

Test-Taking Tools

Test Driver

QA Review Field Test Items - Candidate Name

Question 1 of 1

Highlight (J) Calculator

Flag for Review

Formula Sheet

Calculator Reference

An electronics store sells one model of big-screen television for \$640. The store sells an average of 12 televisions per month. The store manager determines that for every \$10 decrease in price, she can expect to sell 2 more televisions per month. The store manager wants to make \$10,120 from sales of televisions. Which equation can be used to determine the number of price decreases, n , that are need for the manager to make her goal?

- A. $(640 + 10n)(12 - 2n) = 10,120$
- B. $(640 + 2n)(12 - 10n) = 10,120$
- C. $(640 - 2n)(12 + 10n) = 10,120$
- D. $(640 - 10n)(12 + 2n) = 10,120$

End Test

Navigator

Next →

Formula Sheet (page 1)

Mathematics Formula Sheet		
Area of a:		
square	$A = s^2$	
rectangle	$A = lw$	
parallelogram	$A = bh$	
triangle	$A = \frac{1}{2}bh$	
trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$	
circle	$A = \pi r^2$	
Perimeter of a:		
square	$P = 4s$	
rectangle	$P = 2l + 2w$	
triangle	$P = s_1 + s_2 + s_3$	
Circumference of a circle	$C = 2\pi r$ OR $C = \pi d$; $\pi \approx 3.14$	
Surface area and volume of a:		
rectangular prism	$SA = 2lw + 2lh + 2wh$	$V = lwh$
right prism	$SA = ph + 2B$	$V = Bh$
cylinder	$SA = 2\pi rh + 2\pi r^2$	$V = \pi r^2 h$
pyramid	$SA = \frac{1}{2}ps + B$	$V = \frac{1}{3}Bh$
cone	$SA = \pi rs + \pi r^2$	$V = \frac{1}{3}\pi r^2 h$
sphere	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$

Formula Sheet (page 2)

	$(p = \text{perimeter of base with area } B; \pi \approx 3.14)$
Data	
mean	mean is equal to the total of the values of a data set, divided by the number of elements in the data set
median	median is the middle value in an odd number of ordered values of a data set, or the mean of the two middle values in an even number of ordered values in a data set
Algebra	
slope of a line	$m = \frac{y_2 - y_1}{x_2 - x_1}$
slope-intercept form of the equation of a line	$y = mx + b$
point-slope form of the equation of a line	$y - y_1 = m(x - x_1)$
standard form of a quadratic equation	$y = ax^2 + bx + c$
quadratic formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Pythagorean theorem	$a^2 + b^2 = c^2$
simple interest	$I = Prt$ (I = interest, P = principal, r = rate, t = time)
distance formula	$d = rt$
total cost	total cost = (number of units) \times (price per unit)

Item Development

The basis for item development is the Mathematical Reasoning indicators, which can be found in the ***Assessment Guide for Educators***.

Each indicator describes one or more mathematical skills.

Each test item is written to target *one* of the skills described by an indicator.

Q.1.a Order fractions and decimals, including on a number line.

Item Development—Guiding Principles

Guiding principles for item development include:

- One item, one construct
- No extraneous information
- Distractors* reflect (most) common mistakes
- No ‘backwards’ assessment
- No testing of definitions or solution methods
- No ‘trick’ questions

*Incorrect answers

Field Test Analysis

New items are field tested, and afterward, are analyzed statistically. Each item is:

- Accepted,
- Rejected, or
- Revised and re-field tested

Accepted items are eligible for operational tests.

Rejected items are never heard from again.

This post-field test analysis also enables us to identify areas where test takers underperform.

Questions?



Assessment Targets and Indicators



Assessment Targets and Indicators

Assessment Target:

Q.1	Apply number sense concepts, including ordering rational numbers, absolute value, multiples, factors, and exponents
------------	--

Assessment Targets and Indicators

Assessment Target with Indicators:

Q.1	Apply number sense concepts, including ordering rational numbers, absolute value, multiples, factors, and exponents
Q.1.a	Order fractions and decimals, including on a number line.
Q.1.b	Apply number properties involving multiples and factors, such as using the least common multiple, greatest common factor, or distributive property to rewrite numeric expressions.
Q.1.c	Apply rules of exponents in numerical expressions with rational exponents to write equivalent expressions with rational exponents.
Q.1.d	Identify absolute value or a rational number as its distance from 0 on the number line and determine the distance between two rational numbers on the number line, including using the absolute value of their difference.

Assessment Targets—Areas of Mathematics

Arithmetic:

- Number Sense
- Computation (including roots, percents, etc.)
- Geometric Measurement (2-D and 3-D)
- Data Displays
- Statistics/Probability

Assessment Targets—Areas of Mathematics

Algebraic:

- Algebraic Expressions
- Linear Equations
- Linear Inequalities
- Quadratic Equations
- Slope/Graphing
- Parallelism/Perpendicularity
- Functions

What's Not Assessed

If a concept is *not* described in the GED Mathematical Reasoning indicators, then it is *not* assessed on the GED Mathematical Reasoning test.

- Geometric proofs
- Trigonometry
- Exponential functions
- Two-variable inequalities
- Graphing quadratic equations
- Determining lines of best fit

Non-calculator Indicators

- **Q.1.a – Q.1.d** (number sense—ordering fractions and decimals, factors, multiples, exponents, distance on number lines)
- **Q.2.a – Q.2.d** (arithmetic computation—four basic operations, order of operations, squares, cubes, roots, undefined expressions)
- **NOT Q.2.e** (arithmetic word problems; calculator allowed)



Terminology

Basic rule: if a mathematical term is included in an indicator, test takers are expected to know it.

Caveat: definitions are *not* assessed on the GED Mathematical Reasoning test (e.g., “Which of these is the definition of a function?”).

Corollary: test takers are expected to *use* definitions in some items (e.g., “Which table represents a function?”).

Indicators—Multiple Skills

Q.1.a Order fractions and decimals, including on a number line.

What skills are included in this indicator?

- ordering fractions only (list)
- ordering decimals only (list)
- ordering fractions *and* decimals (list)
- ordering fractions only (number line*)
- ordering decimals only (number line*)
- ordering fractions *and* decimals (number line*)

*Requires knowing how to plot values on a number line

Can differentiate further: all positive; all negative; mix of both

Indicator Skills—Beyond the Literal

Q.1.a Order fractions and decimals, including on a number line.

We can also go beyond the *literal words* in the indicator to assess a skill.

Ordering is essentially a series of comparisons. We can therefore give *one* number (instead of several) and ask where it belongs in *comparison* to other numbers.

Indicator Skills—Further Examples

Q.1.a Order fractions and decimals, including on a number line.

Sample ‘comparison’ stems*:

- Between which pair of fractions should $\frac{4}{7}$ be placed?
- Between which pair of decimals should $\frac{4}{7}$ be placed?
- Between which pair of fractions should 0.38 be placed?

*the technical term for the actual question part of a test item

Implications for Educators

The skills assessed on the GED Mathematical Reasoning test are described in the indicators contained in the GED Assessment Targets.

The indicators do not describe *how* a skill is assessed, but if students know and understand a skill, their chances of success in solving test problems are high.

Many ‘introductory’ skills—i.e., converting a fraction to a decimal—are *not* assessed, but may require classroom instruction. This is where educator expertise is *critical*.

Types of Mathematical Reasoning Items

- Computational (arithmetic *and* algebraic)
 - Majority of items
- Translational (modeling, real-world problems)
- Analytical (interpret data displays, meaning of slope)
 - Extension of translation

NOTE: some items fall into multiple categories (i.e., real-world problems require both translation and computation)

Questions?



Mathematical Reasoning Items and Strategies

Computational Items

‘Computation’ does *not* just mean using the four basic operations to manipulate only numbers.

$$-0.62 + 3/8$$

‘Computation’ encompasses operations with arithmetic *and* algebraic terms, including the use of formulas, applying rules for exponents, working with data, statistics, and probability, etc.

- What is the area of a circle with a radius of 6 inches?
- Solve the equation: $-2x + 4 = -9x - 8$

Translational Items (Two types)

Modeling: creating or identifying a mathematical representation (equation, data display, algebraic graph, etc.) that models a given situation or other mathematical representation

An oil storage tank has a capacity of 16,000 gallons and is filled using a pipe that carries 40 gallons of oil per minute. The tank currently holds 9,600 gallons of oil. **Which equation can be used to determine the number of minutes, m , it will take to fill the tank to capacity?**

Computation in context: solving a mathematical problem given a textual description (may include pictorial representations)

An oil storage tank has a capacity of 16,000 gallons and is filled using a pipe that carries 40 gallons of oil per minute. The tank currently holds 9,600 gallons of oil. **How many minutes will it take to fill the tank to capacity?**

Close Reading

Close reading is an instructional strategy that is recommended for other content areas (RLA, Science, Social Studies).

Math is slightly different, as items typically require translation into 'mathematical language' (either explicitly written or internalized).

It is therefore necessary to adapt close reading strategies somewhat for mathematics.

Mathematical Language

No one 'true' definition

My definition: anything that describes mathematical quantities and/or relationships, usually going *beyond* simple text

Includes:

- Terminology (e.g., 'polynomials')
- Words with math-specific meanings (e.g., 'product')
- Symbols: single representations (n), or in combination
($y = 3x + 4$)
- Mathematical syntax rules (e.g., PEMDAS)

Adapting Close Reading for Mathematics

One suggested approach:

- Begin by reading the problem in order to *understand the task*—i.e., what are test takers being asked to do?
- Re-read to search out and identify information that:
 - describes quantities and their relationships
 - describes the required task in terms of those quantities

Mathematical Language—Sample Item

An oil storage tank has a capacity of 16,000 gallons and is filled using a pipe that carries 40 gallons of oil per minute. The tank currently holds 9,600 gallons of oil. How many minutes will it take to fill the tank to capacity?

Task: determine number of minutes

Information:

- total capacity
- current amount
- rate of fill

Mathematical language: how do I translate the text into mathematical quantities and relationships, and how do I use those relationships to complete the task?

Strategies for Educators

- Build recognition of required algorithms and fluency in performing computations.
- Use proficiency in numeric computation skills to build proficiency in algebraic computation, understanding the differences and relationship between the two.
- Build familiarity with, and proficiency in, interpreting text and translating to mathematical language (written or internalized), and then to applications of mathematical algorithms.

Questions?



Technology Enhanced Items

TEIs—General Information

Most items on the GED Mathematical Reasoning Test are multiple-choice (MC). However, there are some Technology-Enhanced Items (TEIs) on every test.

Types:

- Drag-and-drop
- Dropdown
- Fill-in-the-blank
- Hot spot

TEI's—Examples

QA Review Field Test Items - Candidate Name Question 1 of 15 (1030122)
Highlight (J) Flag for Review

Formula Sheet

Simplify.
 $3 \times (8 - 4) + 6 \div 2 - 5$

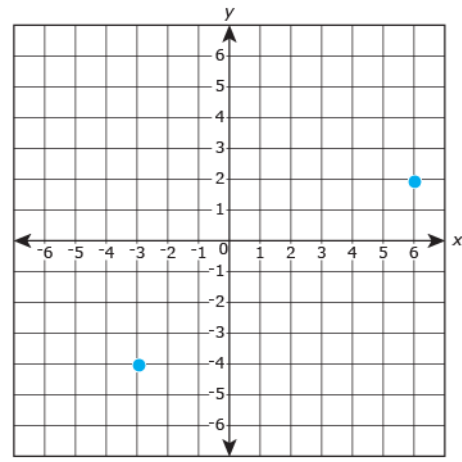
- Select... ▾
- Select...
- 10
- 8
- 10
- 12
- 18

Test Driver - □ ×
QA Review Field Test Items - Candidate Name Question 9 of 15
Highlight (J) Calculator Flag for Review

Formula Sheet

Calculator Reference

Plot the points $(-3, -4)$ and $(6, 2)$ on the coordinate grid.
Click on the grid to plot the points.



End Test

End Test ← Previous Navigator Next →

TEI's—Examples

Test Driver

QA Review Field Test Items - Candidate Name

Question 5 of 15

Highlight (1) Calculator

Flag for Review

Formula Sheet

Calculator Reference

Type your answer in the box. You may use numbers, a decimal point (.), and/or a negative sign (-) in your answer.

Solve for x .

$$2x - 4 = -3x + 11$$

$x =$

Test Driver

QA Review Field Test Items - Candidate Name

Question 15 of 15

Highlight (1) Calculator

Flag for Review

Formula Sheet

Calculator Reference

The table of values represents a function. Place an additional pair of values in the table so that it still represents a function.

Click on the numbers you want to select and drag them into the boxes.

x	y
-1	8
2	0
-2	-5
4	6
3	3

End Test

End Test

Previous

Navigator

Next

2023 GED Conference Session

“Exploring Technology-Enhanced Items”

- Deep dive into TEIs
- All four content areas
- Presentation can be downloaded after conference

Gaps in Skills and Knowledge

Field Test Analysis (Slight Return)

New items are field tested, and afterward, are analyzed statistically. Each item is:

- Accepted,
- Rejected, or
- Revised and re-field tested

Accepted items are eligible for operational tests.

Rejected items are never heard from again.

This post-field test analysis also enables us to identify areas where test takers underperform.

Underperforming vs Difficulty

Some mathematical concepts, such as permutations and quadratic equations, are inherently more difficult. *We expect* test takers to perform less well on items assessing these concepts.

However, test takers tend to underperform on other concepts that are not as inherently difficult.

Areas of Skill and Knowledge Gaps

Mathematical Concepts:

- exponents/roots
- three-dimensional shapes
- (compound) probability
- algebraic computation
- inequalities
- slope/graphing

Mathematical Item Types:

- non-calculator items
- multiple responses

NOTE: There *is* overlap among many of these gaps.

Underperformance in Mathematical Concepts—Educator Strategies

Be aware of the problem

Identify where ‘problem’ concepts are related to other concepts (e.g., exponents → polynomials)

Leverage existing knowledge (e.g., equations → inequalities)

Underperformance in Mathematical Concepts—Educator Strategies

Practice using formulas (geometric measurement, slope)

Practice translating representations (equation \rightarrow graph; words \rightarrow symbols)

Build recognition and fluency

Underperformance in Mathematical Item Types—Educator Strategies

For concepts assessed by non-calculator indicators, practice with a calculator to increase comfort level, then move to practicing without a calculator

Make sure students understand that TE items can have more than one (correct) answer

Questions?



Session Survey

Your feedback is important. Please scan the QR code below to rate this session.



Thank you!

Communicate with GED Testing Service®
help@ged.com

Michael Bell – michael.bell@ged.com

Resources for Educators

Underperformance in Mathematical Reasoning

Tuesdays for Teachers (also other content areas)

“GED Knowledge & Skill Gaps—Mathematical Reasoning (Part One/Two)”

https://ged.com/educators_admins/teaching/professional_development/webinars

Some presentations can be found on YouTube

<https://youtube.com/playlist?list=PLJ4lvP90ndyXDxVHLZ4hxacF0wIF-C2mc>

2023 Conference: Higher Level Math Skills
(Ron Cruz Allen)

My Thanks....

....to Debi Faucette for providing many of these!

GED.com Links

- Computer Tutorial
- Calculator Tutorial
- Calculator Reference Sheet
- Formula Sheet
- Math Study Guide
- Calculator-Prohibited Indicators

https://ged.com/educators_admins/teaching/classroom_materials/

https://ged.com/educators_admins/teaching/teaching_resources

Assessment Guide for Educators:

https://ged.com/wp-content/uploads/assessment_guide_for_educators_all_subjects.pdf

GED.com Links

“Tips for Non-Calculator Math”

English:

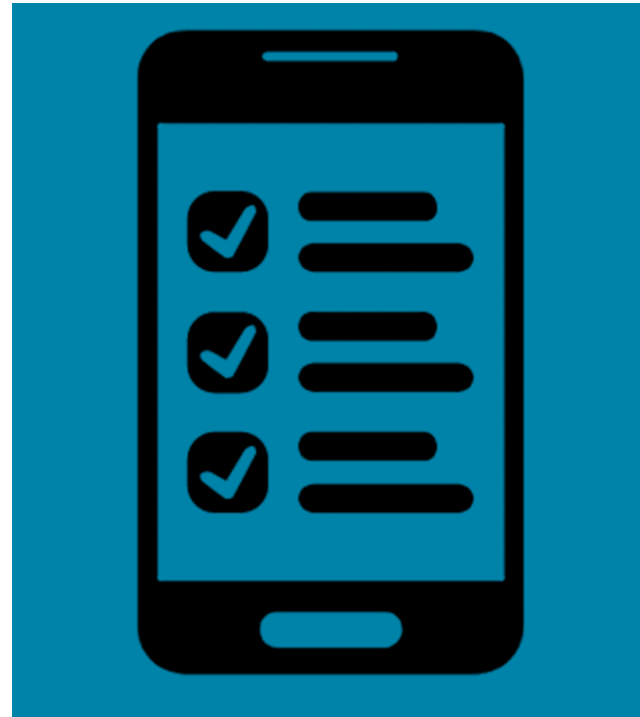
https://ged.com/wp-content/uploads/Tips-for-Non-calculator-math_EN.pdf

Spanish:

https://ged.com/wp-content/uploads/Tips-for-Non-calculator-math_ES.pdf

Other Instructional Resources

- Florida Literacy Math App
- Effortless Math
- IXL Learning
- GED Math Crash Course
- Math is Fun



GED Flash™



Florida Literacy Math App



Scan with
camera to
access app

<https://floridaliteracy.org/mathvideos.html>

The screenshot shows the app's home screen with an orange header containing a menu icon and the word "Welcome". Below the header is the Crowded Learning logo, which includes a sun over an open book and the text "CROWDED learning LEARNING. EVERYONE." and "Florida Literacy Coalition, Inc.". The main heading reads "VIDEO MATH PREP FOR THE GED". A paragraph states: "This app is proudly presented to you by the Florida Literacy Coalition, in partnership with Crowded Learning." Below this is a section titled "How to use this app" with the text: "Watch this video to learn how to make the most of the app's features as you build your math skills!". At the bottom, there is a video player titled "GED Math Video App Overview" with a play button. Below the video player are two smaller phone screens showing the app interface. At the very bottom is a navigation bar with four icons: "Welcome", "Browse", "Search", and "Completed".

Video Math Prep-GED
by Crowded Learning and Florida Literacy Coalition

Built in collaboration by the Florida Literacy Coalition + Crowded Learning

SHARE APP **SHOW FULLSCREEN**

FL Literacy Math App Tracking Sheet

<https://gedmath.glideapp.io/>



Florida Literacy Coalition, Inc. FLC Math Tracking Sheet

This tracking sheet may help you as you explore all the video mini-lessons for the GED Math test. You can download/print this form and check the boxes next to the videos that you've watched.

It may be best if you watch the videos in order as they have been arranged with increasing difficulty and the skills will build as you go along.

As you explore the website you will notice that the videos are organized into 6 sections:

[Foundations](#)
[Basic Math](#)
[Basic Algebra](#)
[Graphs and Functions](#)
[Geometry](#)
[Calculator/Reference Sheet](#)

These sections are shown below. When you open each section you will find the videos organized into subsections shown here in blue.

Limited on time? If you're looking for the most important videos you may want to focus on the [Basic Algebra](#) and [Graphs and Functions](#) sections.

FOUNDATIONS	
Place Value and Rounding	
<input type="checkbox"/>	Finding a number's place value
<input type="checkbox"/>	Rounding whole numbers example 1
<input type="checkbox"/>	Rounding whole numbers example 2
<input type="checkbox"/>	Rounding to estimate difference
<input type="checkbox"/>	Rounding decimals to the nearest tenth
Fraction Basics	
<input type="checkbox"/>	Numerator and denominator of a fraction
<input type="checkbox"/>	Identifying fraction parts
<input type="checkbox"/>	Proper and improper fractions
<input type="checkbox"/>	Converting mixed numbers to improper fractions
<input type="checkbox"/>	Mixed numbers: changing from an improper fraction
<input type="checkbox"/>	Fractions in lowest terms
<input type="checkbox"/>	Reciprocal of a mixed number
<input type="checkbox"/>	Finding Common denominators
Decimal Basics	
<input type="checkbox"/>	Decimal place value
<input type="checkbox"/>	Decimal to simplified fraction
<input type="checkbox"/>	Fraction to decimal
<input type="checkbox"/>	Converting percent to decimal and fraction
Identification	

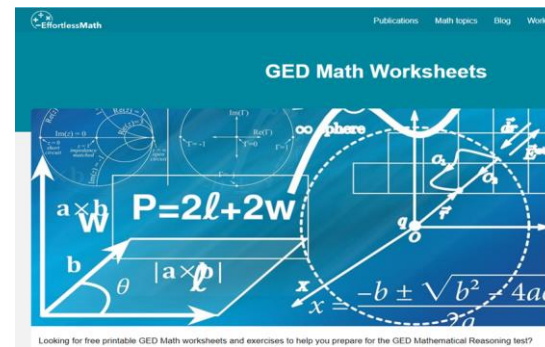
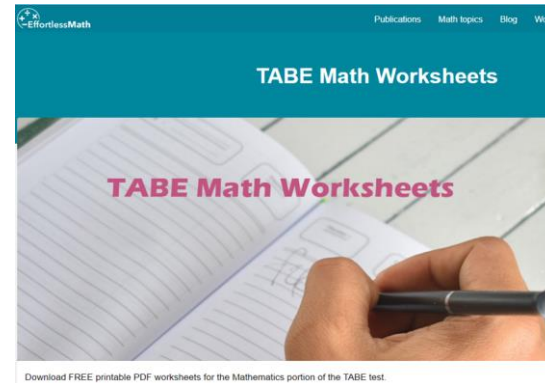
<input type="checkbox"/>	Recognizing prime and composite numbers
<input type="checkbox"/>	Identifying Rational Numbers
<input type="checkbox"/>	Identifying parallel and perpendicular lines
Properties and Laws	
<input type="checkbox"/>	Properties of whole numbers
<input type="checkbox"/>	Commutative property for addition
<input type="checkbox"/>	Commutative law of addition
<input type="checkbox"/>	Associative law of addition
<input type="checkbox"/>	Associative property for multiplication
<input type="checkbox"/>	Associative law of multiplication
<input type="checkbox"/>	Commutative law of multiplication
<input type="checkbox"/>	Ways to represent multiplication
<input type="checkbox"/>	Identity Property
<input type="checkbox"/>	Distributive Property 3
<input type="checkbox"/>	Distributive law of multiplication
<input type="checkbox"/>	Expressing division in multiple ways
BASIC MATH	
Comparing Numbers	
<input type="checkbox"/>	Comparing whole numbers, place value
<input type="checkbox"/>	Comparing decimals
<input type="checkbox"/>	Comparing fractions
<input type="checkbox"/>	Comparing fractions with different

Effortless Math

This site contains free pdf worksheets for [TABE](#) and [GED](#) skills practice.

All worksheets contain answer keys so that students can self-check their work.

[Effortless Math: We Help Students Learn to LOVE Mathematics](#)



IXL Learning

Contains content for math (K-12), RLA (K-12), science (K-8), and social studies (K-8)

[IXL | Math, Language Arts, Science, Social Studies, and Spanish](#)

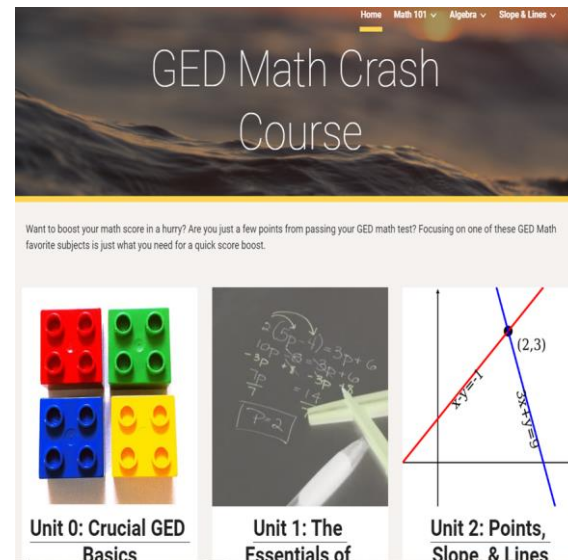


GED Math Crash Course

This site contains videos, notes, and practice problems for GED(R) prep students

Resources can be incorporated into a Google Classroom

[Light & Salt Learning - 0: Crucial GED Basics \(gedmathcrashcourse.com\)](https://www.gedmathcrashcourse.com)



Math is Fun

<https://www.mathsisfun.com/geometry/>



The screenshot shows the 'Geometry' page on the Math is Fun website. At the top, there is a navigation menu with links for Home, Algebra, Data, Geometry, Measure, Numbers, Physics, Dictionary, Games, and Puzzles. Below the menu is a search bar and a 'Link Here' button. The main heading is 'Geometry', followed by the text 'Geometry is all about shapes and their properties.' and 'If you like playing with objects, or like drawing, then geometry is for you!'. The page explains that geometry can be divided into two types: Plane Geometry and Solid Geometry. Plane Geometry is described as being about flat shapes like lines, circles, and triangles, with a diagram of a plane. Solid Geometry is described as being about three-dimensional objects like cubes, prisms, cylinders, and spheres, with a diagram of various solids. A hint suggests drawing shapes and angles to help. At the bottom, there is a section titled 'Point, Line, Plane and Solid' with definitions for each: a Point has no dimensions, a Line is one-dimensional, a Plane is two-dimensional (2D), and a Solid is three-dimensional (3D). A diagram shows a point, a line, a square, and a cube corresponding to dimensions 0, 1, 2, and 3 respectively.

Home Algebra Data Geometry Measure Numbers Physics Dictionary Games Puzzles

Search

MATH'S FUN

Link Here

Geometry

Geometry is all about **shapes** and their properties.

If you like playing with objects, or like drawing, then geometry is for you!

Geometry can be divided into:

Plane Geometry is about flat shapes like lines, circles and triangles ... shapes that can be drawn on a piece of paper

Solid Geometry is about three dimensional objects like cubes, prisms, cylinders and spheres.

Hint: Try drawing some of the shapes and angles as you learn ... it helps.

Point, Line, Plane and Solid

A **Point** has no **dimensions**, only position

A **Line** is one-dimensional

A **Plane** is two dimensional (2D)

A **Solid** is three-dimensional (3D)

0 1 2 3

Dimensions

Using Nets to Find Surface Areas

Math Interactives

The screenshot shows a software interface with two tabs: "Use It 1: Nets" and "Use It 2: Views". The "Use It 1: Nets" tab is active and contains a grid of six 3D objects: a purple trapezoidal prism, a yellow triangular prism, a red triangular prism, a green triangular prism, a green cylinder, and a purple cone. Below the grid is a slider and three buttons, each showing a different net of a rectangular prism. The "Use It 2: Views" tab is currently empty.

Use It 1: Nets

Use It 2: Views

Find the nets for all 6 objects.

The slider provides an animation between the rectangular prism and its net. After watching the animations several times, select the appropriate net below:

http://www.learnalberta.ca/content/mejhm/index.html?l=0&ID1=AB.MATH.JR.SHAP.SURF&lesson=html/object_interactives/surfaceArea/use_it.html

Thank you!

Communicate with GED Testing Service®
help@ged.com

youinspire
2023 GED CONFERENCE

GED
TESTING SERVICE