SUPER SIMPLE **ALGEBRA CURRICULUM**

12 COMPLETE UNITS

MAKING MATH ACCESSIBLE TO ALL LEARNERS



For students who:

- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support
- middle/high school



SUPER SIMPLE

- Super simple indicates that it is intended for students working at a **K-1 level** and need maximum support.
- Problems are simplified.
- **Pictures** are used throughout.
- Intended for students in self-contained settings.
- Printable and digital activities for more practice.



Essential Topics

1. Plotting Coordinates 2. Exponents **3. Rational Numbers** 4. Ratios **5.** Function Machines 6. Function Tables

- 7. Slope
- 8. Algebra
- 9. Inequalities
- 10. Polynomials
- 11. Systems of Equations
- 12. Pythagorean Theorem

Most often taught in this order



1. Plotting Coordinates

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This unit mainly focuses on **Quadrant 1**:

- Labeling parts of a graph
- Identify coordinates on objects
- Plotting objects on a coordinate grid



2. Exponents

- Identify numbers with exponents
- Identify the base and power
- Expanded form of exponents
- Focus on squared and cubed



3. Rational Numbers

- Types of rational numbers
- Repeating and nonrepeating decimals
- Irrational numbers



4. Ratios

- Ways to express ratios
 - part:part
 - part:whole
 - whole:part
- Equivalent ratios
- Percentage (with ratios out of 100)
- Real-world problems



5. Function Machines

This unit addresses:

- The output of the machine given an input
- The input of the machine given an output
- The function rule for the machine



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6. Function Tables

- Identify parts of a function table
- Identify the output values in the table
- Identify the input values in the table
- Fill in missing outputs in the table



7. Slope

- Objects that have a slope
- Steeper indicates more slope
- Positive, negative, and zero slope
- Rise and run



8. Algebra

- Checking if equations are balanced
- Balancing equations
- Solving for an unknown variable



9. Inequalities

- Identify inequality symbols
- Identify possible values on inequalities
- Use a number line to draw inequalities
- Real-world examples





10. Polynomials

- Identify variables in a polynomial
- Identify numbers in a polynomial
- Identify coefficients in a polynomial
- Identify operations in a polynomial (addition and subtraction)



11. Systems of Equations

- Real-world situations that are systems in disguise
- Identifying variables
- How variables are related
- Uses simple math



12. Pythagorean Theorem

- Identifying right triangles
- Identify the legs and hypotenuse
- Plug values into the Pythagorean Theorem



What's Included?

Each unit has:

- Detailed lesson plans
- Engaging PowerPoints to teach concepts
- Group activities
- Practice worksheets
- Assessments
- Printable and digital formats

Activity Read or listen to a recording of the PowerPoint: Super •	ulting lots Of	PowerPoint Vocabulary boa
PowerPoint: Super	Read through the story, asking to: questions Continue to make connections between the	• ••••
Simple Pythogener Theorem (10 minutes) Group Activity (15 minutes) Labeling activity review (5 minutes) Writing the Pythagorean Theorem (15 minutes) Sharing (10 minutes)	 Do one of the group activities There are five to choose from See activity for specific instructions Review the activity completed yesterday Students will now practice writing the Pythagorean Theorem (cut and paste) why given a right triangle with the side lengths labeled. There are 11 problems. Do as many repetitions as appropriate for your stude Keep the extra work for review or homework. Add color-coding for students w need more support Have students practice reading the completed Pythagorean Theorem. Each student shares their finished work with the group using the communicat method of their choice 	Materials for activity (see p worksheets yesterday worksheet Scissors Glue nts. ho ksheet ion Comple Commu

equalities: Group Activities

Shopping

cenario: Students decide if they have enough money to

aterials:

- Template from activity 2
- Cards from activity 2
- Pretend money
- Price tags (blank sheet also included)
- Magazines

tivity:

- Teacher places money on one side of the template. If you do not have play money, write an amount in the circle with
- Use the less than or equal sign in the center square.
- Show students various pictures you have cut from magazines with the price tags attached.
- Students pick what they would buy and stay within



Christa Joy, Special Needs for Special Kids The Picture Communication Symbols @1981-2019 by Tobil Dynavox. All Rights Reserved Worldwide. Used with permission. Boardmaker® is a trademark of Tobil Dynavox



Digital Activities

- Provide extra practice
- Great independent work centers
- Include a differentiated set of slides
- Click and drag





What Teachers Are Saying

I was truly struggling with finding algebra materials (without having to make everything from scratch) for my high school students whose comprehension is more on a k-1st grade level. These visual algebra activities made the content accessible. Great resource.

> This resource aligns with our standards that need to be covered for alternative assessment. The worksheets help to make the concept more concrete for my students.



Still have questions?

Reach out at specialneedsforspecialkids@gmail.com

I will answer your question personally and promptly.





