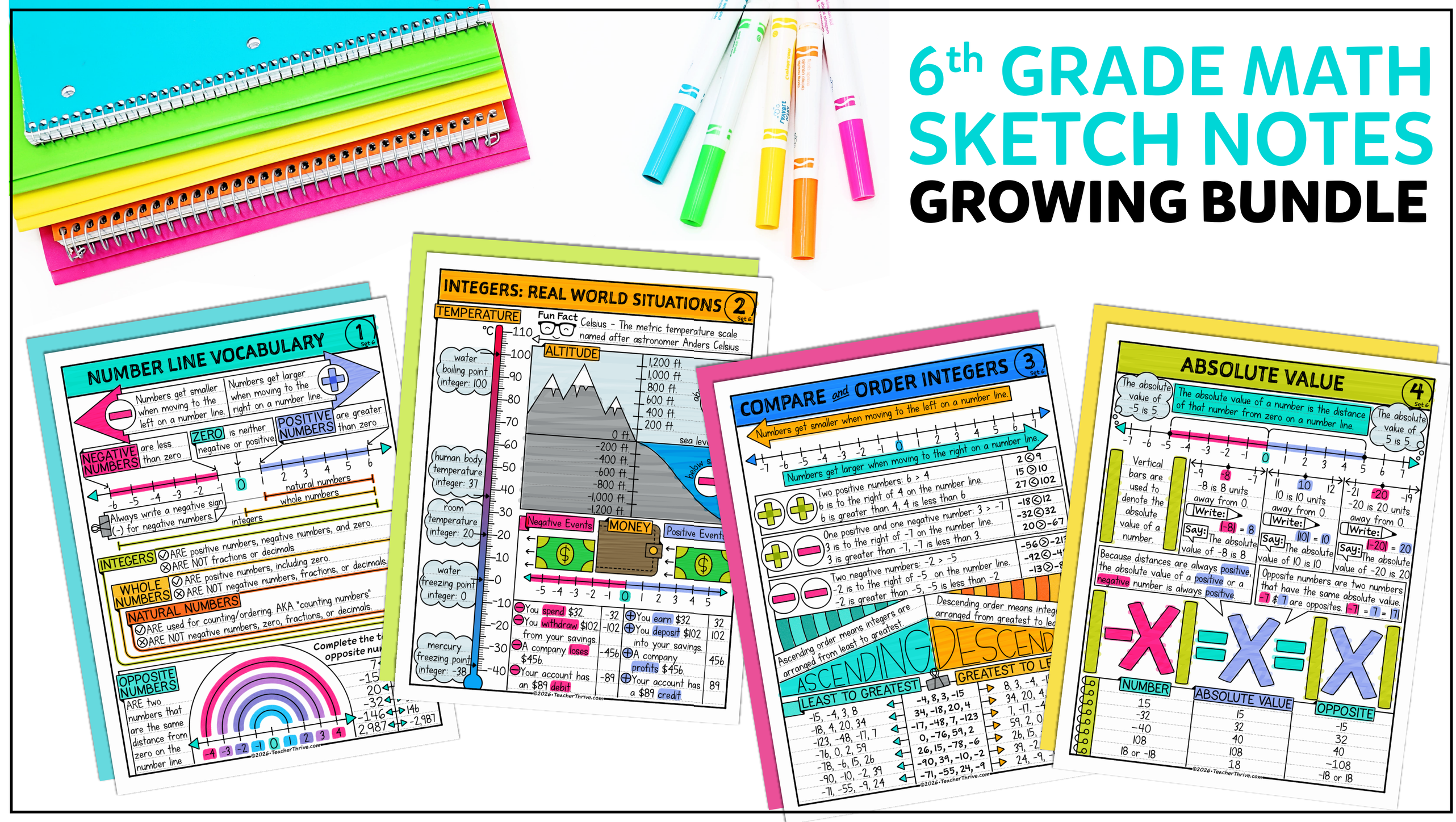
6th GRADE MATH SKETCH NOTES GROWING BUNDLE







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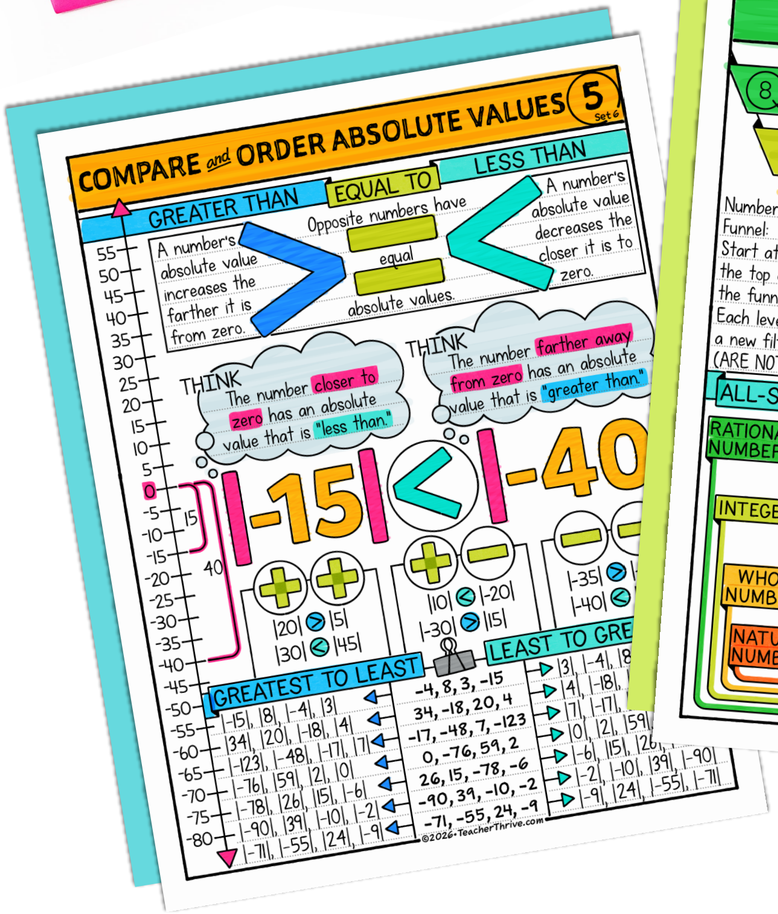

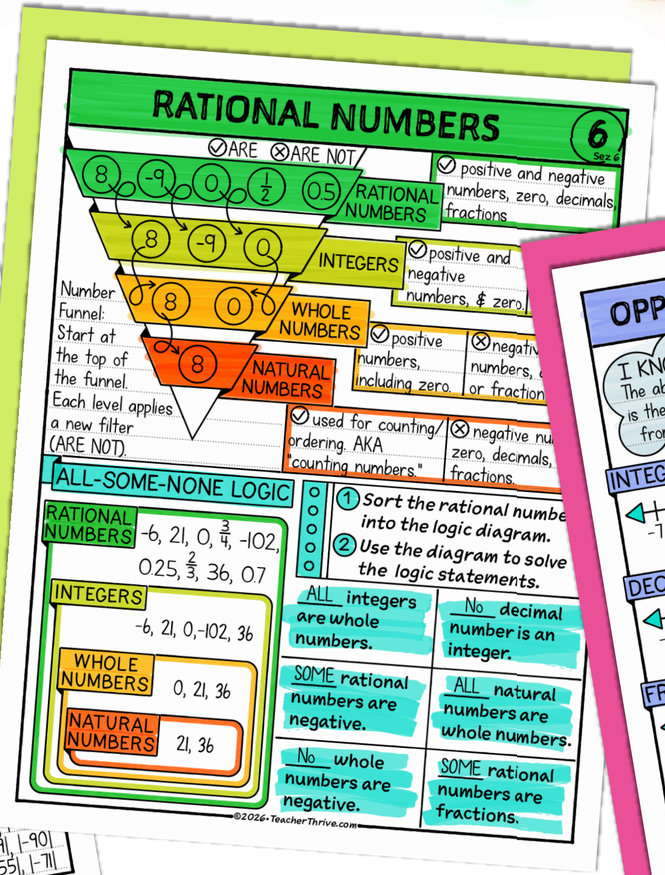

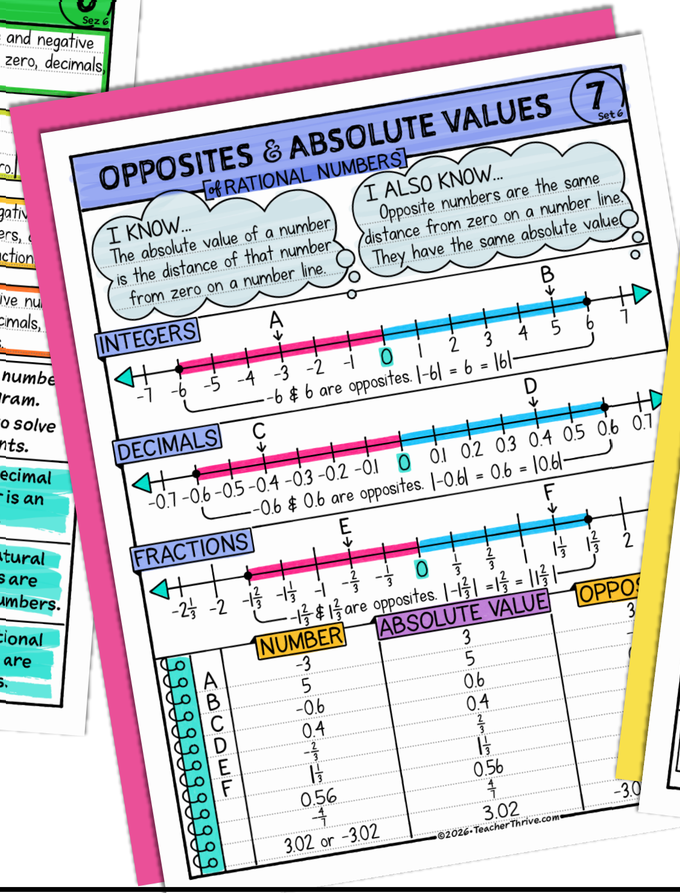

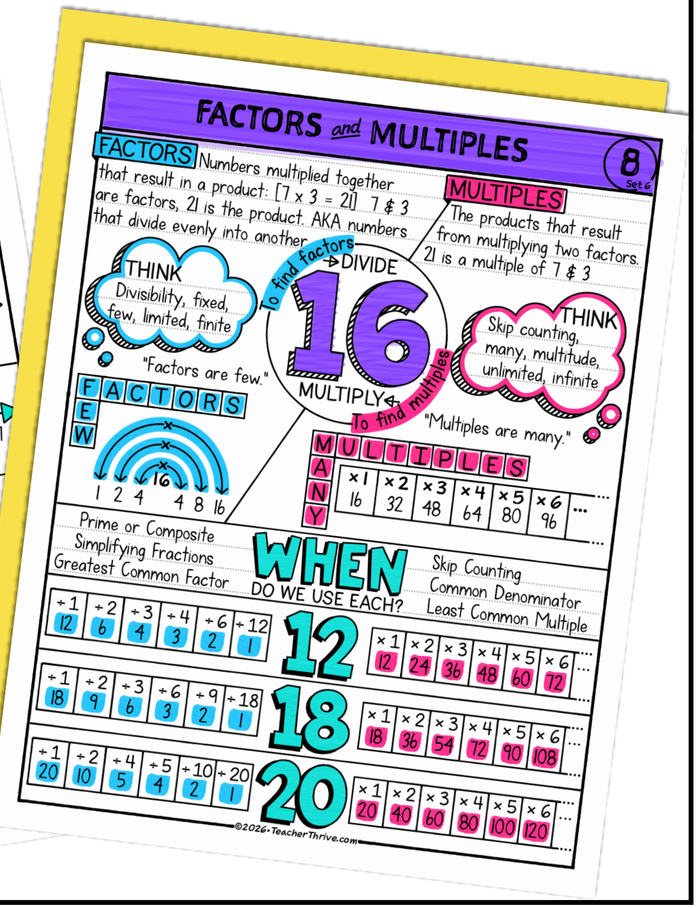

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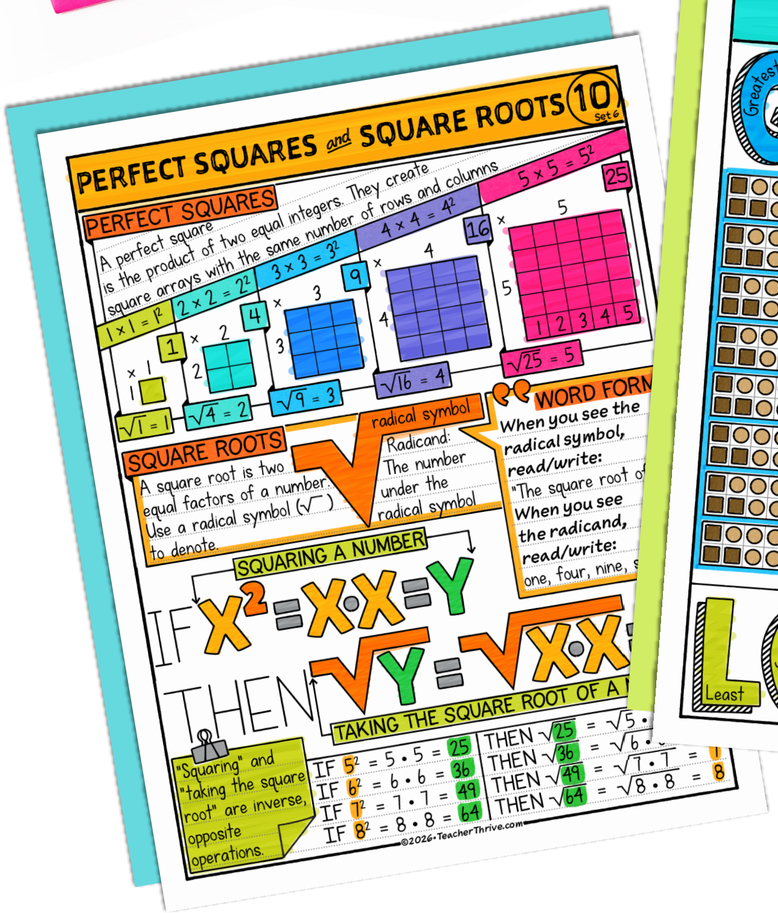

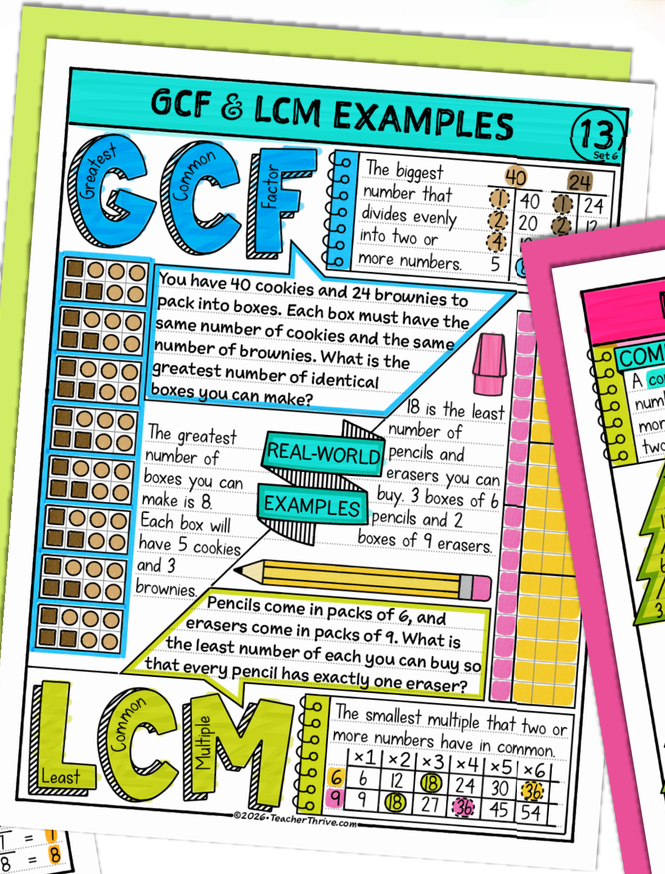

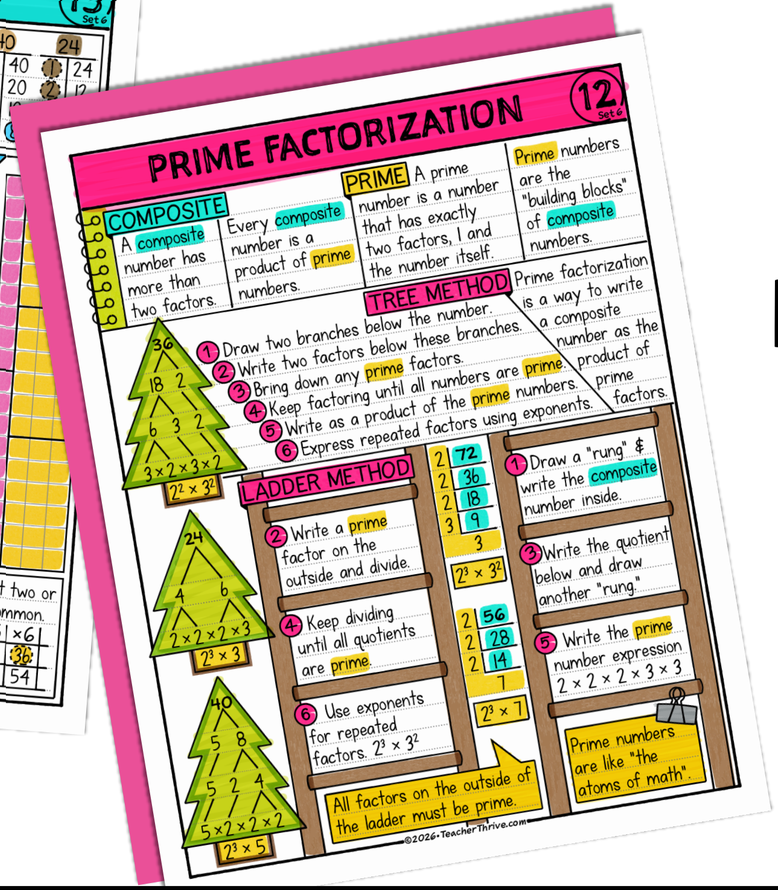

And many more to come!!!

MATH SKETCH NOTES

Grade 6 bundle

PREVIEW

What’s included?

This purchase includes the Grade 6 math sketch notes. Each other grade is sold separately.

Browse the bundles

- **Grade 6** Included here ›
- **Grade 3** Sold separately ›
- **Grade 4** Sold separately ›
- **Grade 5** Sold separately ›

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Math Sketch Notes bundle comparison

Find the skill your students are working on, then read across to see how the lessons change by grade.

Skill area	Grade 3 Sold separately Bundle ›	Grade 4 Sold separately Bundle ›	Grade 5 Sold separately Bundle ›	Grade 6 Included here Bundle ›
Number sense	Build numbers with base-ten blocks. Read, write and round whole numbers.	Compare multi-digit numbers, use place value to round and estimate.	Use powers of ten, exponents and place value through thousandths.	Order positive and negative numbers. Find opposites and absolute value.
Multiplication and division	Model equal groups, learn fact families and solve word problems with bar models.	Use area models, partial products and partial quotients. Divide with remainders.	Multiply multi-digit numbers and divide by two-digit divisors using several methods.	Use factors, multiples and exponents. Review long division and work with roots.
Fractions	Build and compare fractions with bars and number lines. Find equivalent fractions.	Add and subtract fractions and mixed numbers with like denominators. Multiply a fraction by a whole number.	Add and subtract unlike fractions. Multiply fractions and divide with unit fractions.	Review fraction operations. Model division, use reciprocals and divide mixed numbers.
Decimals	No dedicated decimal lessons listed.	Read, compare, add and subtract tenths and hundredths.	Read decimals to thousandths. Add, subtract, multiply and divide decimals.	Use all four decimal operations. Convert between fractions and decimals.
Other skills	Tell time and find elapsed time. Measure length, mass, area and perimeter. Read bar graphs and line plots.	Measure angles with a protractor, classify shapes and convert units. Find missing side lengths and read line plots.	Find volume with cubes and formulas. Graph ordered pairs and patterns. Use order of operations.	Represent ratios visually and compare how quantities change. Geometry and statistics are listed as future topics.

Choosing for a mixed-grade group

For a fraction goal, picture your next small-group lesson. If students are placing 3/4 on a number line, open Grade 3. For 1/4 + 2/4, open Grade 4. For 1/2 + 1/3, open Grade 5. For 3/4 ÷ 1/2, open Grade 6.

All four bundles include printable student notes, PowerPoint teaching slides and answer keys. In a small group, you can model one step on a slide, pause for students to fill it in, and keep the finished page for reference.

MATH SKETCH NOTES

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- **Grade 5** — Sold separately

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TEACHER THRIVE / GRADES 3-6

How the same skills build across grades

Read across a row to follow one skill. Select a lesson number to open its product page. A dash means no dedicated lesson is listed.

Shared topic	Grade 3 Sold separately	Grade 4 Sold separately	Grade 5 Sold separately	Grade 6 Included here
Compare and order	Order whole numbers. 03.05	Compare multi-digit whole numbers. 04.04	Order decimals through thousandths. 05.58	Order integers on a number line. 06.03
Rounding	Round to the nearest ten. 03.06	Round multi-digit whole numbers. 04.08	Round decimals to a given place. 05.59	—
Multiplication	Show 3 × 4 as equal groups. 03.16	Use an area model for 12 × 14. 04.17	Multiply multi-digit whole numbers. 05.12	Review how to multiply mixed numbers. 06.18
Division	Use 3 × 4 = 12 to find 12 ÷ 3. 03.17	Use partial quotients to divide. 04.28	Use partial quotients with a two-digit divisor. 05.22	Extend long division to decimals. 06.29
Factors and multiples	—	Identify the factors of a number. 04.11	Find the greatest common factor. 05.33	Model the greatest common factor and least common multiple. 06.13
Equivalent values	Show 1/2 = 2/4 with an area model. 03.32	Find equivalent fractions. 04.35	Write a fraction in simplest form. 05.36	Write a fraction as a decimal. 06.31
Fraction addition and subtraction	Build a fraction from unit fractions. 03.29	Add or subtract fractions with like denominators. 04.40	Add unlike fractions with an area model. 05.37	Review adding and subtracting mixed numbers. 06.16
Decimal operations	—	Add tenths and hundredths. 04.54	Multiply decimals with an area model. 05.62	Multiply decimals with the standard algorithm. 06.27
Geometric measurement	Find the area of a rectangle. 03.52	Find a rectangle’s missing measurement. 04.71	Find the volume of a rectangular prism. 05.76	—
Graphing	Read a scaled bar graph. 03.62	Show measurement data on a line plot. 04.72	Graph ordered pairs on a coordinate plane. 05.78	—

MATH SKETCH NOTES

Grade 6 bundle

LESSON LIST

Included in this purchase

These Grade 6 lessons are part of the bundle you're previewing.

Browse the bundles

- **Grade 6** — Included in purchase ›
- **Grade 3** — Sold separately ›
- **Grade 4** — Sold separately ›
- **Grade 5** — Sold separately ›

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Select a lesson title to view it on TeacherThrive.com

Grade 6 math sketch notes

For students working on negative numbers, fraction division or ratios. These 34 resources are published in the growing bundle.

Integers and rational numbers

06.01 Number line vocabulary
06.02 Use integers in real-world situations
06.03 Compare and order integers
06.04 Absolute value
06.05 Compare and order absolute values
06.06 Rational numbers
06.07 Opposites and absolute value of rational numbers

Factors, powers and roots

06.08 Factors and multiples
06.09 Exponents
06.10 Perfect squares and square roots
06.11 Perfect cubes and cube roots
06.12 Prime factorization
06.13 Models for greatest common factor and least common multiple
06.14 Ladder method for GCF and LCM

Fraction and mixed-number review

06.15 Add and subtract fractions
06.16 Add and subtract mixed numbers
06.17 Multiply fractions
06.18 Multiply mixed numbers

Dividing with fractions

06.19 Reciprocals and multiplicative inverses
06.20 Model a whole number divided by a fraction
06.21 Model a fraction divided by a whole number
06.22 Divide fractions with a focus on the quotient
06.23 Divide fractions with a focus on the divisor
06.24 Inverse operations and reciprocals
06.25 Divide fractions and mixed numbers using the standard algorithm

Decimals and long division

06.26 Add and subtract decimals
06.27 Multiply decimals
06.28 Long division using the standard algorithm
06.29 Long division of decimals
06.30 Convert decimals to fractions
06.31 Convert fractions to decimals

Ratios

06.32 Introduction to ratios
06.33 Ways to show ratios visually
06.34 Additive and multiplicative relationships in ratios

As the Grade 6 bundle grows

The published ratio lessons introduce ratios, show them with visuals and explore additive and multiplicative comparisons. The listing names rates, percents, equations, geometry and statistics as future topics. Check the current listing if one of these is a priority.

View Grade 6 bundle on TeacherThrive.com

Back to grade comparison

MATH SKETCH NOTES

Grade 3 bundle

LESSON LIST

Sold separately

Your purchase includes Grade 6 only.

Browse the bundles

Grade 6	Included in purchase	›
Grade 3	Sold separately	›
Grade 4	Sold separately	›
Grade 5	Sold separately	›

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Grade 3 math sketch notes

A starting point for a group learning what a fraction means, building multiplication facts or reading an analog clock.

Place value and rounding

03.01 Place value, base ten blocks
03.02 Place value chart
03.03 Numbers in expanded form
03.04 Numbers in word form
03.05 Ordering and comparing whole numbers
03.06 Rounding to the nearest 10
03.07 Rounding to the nearest 100

Addition and subtraction

03.08 Properties of addition
03.09 Patterns in the addition table
03.10 Addition and subtraction word problems
03.11 Addition without regrouping
03.12 Addition with regrouping
03.13 Subtraction without regrouping
03.14 Subtraction with regrouping
03.15 Subtracting across zeros

Multiplication facts and models

03.16 Multiplication models
03.17 Multiplication and division fact families
03.18 Commutative property of multiplication
03.19 Associative property of multiplication
03.20 Distributive property of multiplication
03.21 Zero and identity properties of multiplication

Additional resource

Multiplication and division fact strategies

Word problems and multiplication patterns

03.22 Multiplication and division word problems with bar models
03.23 One-step word problems with bar models
03.24 Two-step word problems with bar models
03.25 Multiply by 1, 10, 100, and 1,000
03.26 Multiply a one-digit number by multiples of 10
03.27 Patterns in the multiplication table

Fractions

03.28 Unit fractions and bar models
03.29 Composing fractions
03.30 Fractions on a number line
03.31 Fraction models
03.32 Equivalent fractions using area models
03.33 Equivalent fractions using linear models
03.34 Fractions that equal one
03.35 Whole numbers as fractions
03.36 Compare fractions with the same denominator
03.37 Compare fractions with the same numerator
03.38 Compare fractions one unit fraction away from a whole
03.39 Compare fractions using several strategies

Telling time

03.40 Tell time to the minute
03.41 Read an analog clock
03.42 Distinguish AM and PM

Elapsed time

03.43 Add time intervals
03.44 Subtract time intervals
03.45 Find elapsed time on a timeline
03.46 Find elapsed time with a T-chart
03.47 Find elapsed time with a Z-chart

Measurement, area and perimeter

03.48 Measure liquid volume in metric units
03.49 Measure mass in metric units
03.50 Measure length in customary units
03.51 Area and square units
03.52 Exploring area of rectangles
03.53 Find area using the distributive property
03.54 Find the area of composite rectilinear figures
03.55 Perimeter of squares and rectangles

Shapes

03.56 Lines and angles
03.57 Polygons
03.58 Parallelograms

Graphs and data

03.59 Measurement data and line plots
03.60 Picture graphs (pictographs)
03.61 Create scaled bar graphs
03.62 Interpret scaled bar graphs

View Grade 3 bundle on TeacherThrive.com

Back to grade comparison

MATH SKETCH NOTES

Grade 4 bundle

LESSON LIST

Sold separately

Your purchase includes Grade 6 only.

Browse the bundles

Grade 6	Included in purchase	›
Grade 3	Sold separately	›
Grade 4	Sold separately	›
Grade 5	Sold separately	›

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Grade 4 math sketch notes

A fit for students moving from models to multi-digit calculations, like-denominator fractions and their first decimal operations.

Place value and addition

04.01 Place value basics
04.02 Expressing number values
04.03 Base 10 place value patterns
04.04 Compare and order numbers
04.05 Add multi-digit whole numbers
04.06 Subtract multi-digit whole numbers
04.07 Properties of addition
04.08 Rounding whole numbers
04.09 Estimation and rounding with whole numbers

Factors and multiples

04.10 Multiplication facts 0-12
04.11 Factors
04.12 Prime and composite numbers
04.13 Prime numbers to 100
04.14 Multiples
04.15 Properties of multiplication

Multiplication strategies

04.16 Area model with a one-digit factor
04.17 Area model with two-digit factors
04.18 Partial products with two-digit factors
04.19 Standard algorithm with a one-digit factor
04.20 Standard algorithm with two-digit factors
04.21 Estimating products
04.22 Distributive property
04.23 Multiply by powers of 10
04.24 Multiplicative comparisons

Division strategies

04.25 Long division and place value
04.26 Estimating quotients
04.27 Long division with an area model
04.28 Partial quotients using easy multiples
04.29 Partial quotients using compatible numbers
04.30 Long division using the standard algorithm
04.31 Long division with remainders
04.32 Divide by powers of 10

Fractions and mixed numbers

04.33 Representing fractions
04.34 Composing and decomposing fractions
04.35 Equivalent fractions
04.36 Benchmark fractions
04.37 Comparing with benchmark fractions
04.38 Strategies for comparing fractions
04.39 Simplify fractions
04.40 Add and subtract fractions with like denominators
04.41 Fractions greater than one
04.42 Add mixed numbers with like denominators
04.43 Subtract mixed numbers with like denominators
04.44 Multiply a whole number by a fraction
04.45 Fractions of a set

Decimal place value

04.46 Understanding tenths
04.47 Understanding hundredths
04.48 Expressing decimal place values
04.49 Decimal place value patterns

Comparing and calculating with decimals

04.50 Decimal fractions
04.51 Find a given amount more or less than a decimal
04.52 Compare and order decimal numbers
04.53 Add decimals in tenths
04.54 Add decimals in tenths and hundredths
04.55 Subtract decimals in tenths and hundredths

Angles and shapes

04.56 Lines, line segments, rays
04.57 Understanding angles
04.58 Using a protractor
04.59 Turns and angle measures
04.60 Additive angle measures
04.61 Classify triangles
04.62 Classifying quadrilaterals
04.63 Lines of symmetry

Measurement and data

04.64 Overview of measurement
04.65 Customary conversions
04.66 Metric conversions
04.67 Elapsed time
04.68 Perimeter of squares and rectangles
04.69 Area of squares and rectangles
04.70 Perimeter and area
04.71 Missing measurements of rectangles
04.72 Data tables and line plots

View Grade 4 bundle on TeacherThrive.com

Back to grade comparison

MATH SKETCH NOTES

Grade 5 bundle

LESSON LIST

Sold separately

Your purchase includes Grade 6 only.

Browse the bundles

Grade 6	Included in purchase	›
Grade 3	Sold separately	›
Grade 4	Sold separately	›
Grade 5	Sold separately	›

Grade 5 math sketch notes

A fit for students ready for unlike denominators, two-digit divisors, decimal operations or volume.

Whole numbers and place value

05.01 Place value basics
05.02 Expressing number values
05.03 Base ten place value patterns
05.04 Compare and order whole numbers
05.05 Add and subtract multi-digit whole numbers
05.06 Properties of addition
05.07 Rounding whole numbers
05.08 Estimating sums and differences

Multiplication

05.09 Exponents and powers of 10
05.10 Multiply by powers of ten
05.11 Place value in two-digit multiplication
05.12 Multi-digit multiplication
05.13 Properties of multiplication
05.14 Distributive property
05.15 Estimating products

Division

05.16 Long division and place value
05.17 Divide compatible numbers
05.18 Estimate quotients
05.19 Divide by powers of ten
05.20 Long division strategies
05.21 Two-digit divisors using an area model
05.22 Two-digit divisors using partial quotients
05.23 Two-digit divisors using the standard algorithm
05.24 Two-digit divisors with remainders

Expressions

05.25 Order of operations
05.26 Write and interpret numerical expressions
05.27 Algebraic expressions

Factors and multiples

05.28 Divisibility rules
05.29 Multiples and factors
05.30 Prime and composite numbers
05.31 Prime factorization trees
05.32 Prime factorization using the ladder method
05.33 Greatest common factor
05.34 Least common multiple
05.35 Ladder method for GCF and LCM

Adding and subtracting fractions

05.36 Equivalent fractions in simplest form
05.37 Add unlike fractions using an area model
05.38 Subtract unlike fractions using an area model
05.39 Fractions greater than one
05.40 Add and subtract unlike fractions using the standard algorithm
05.41 Add unlike mixed numbers using an area model
05.42 Subtract unlike mixed numbers using an area model
05.43 Add unlike mixed numbers with regrouping
05.44 Subtract unlike mixed numbers with regrouping

Multiplying and dividing fractions

05.45 Multiply fractions using an area model
05.46 Multiply fractions using the standard algorithm
05.47 Multiply whole numbers and fractions
05.48 Scaling with fractions
05.49 Multiply whole numbers and mixed numbers
05.50 Multiply fractions and mixed numbers
05.51 Fractions as division
05.52 Divide a whole number by a unit fraction
05.53 Divide a unit fraction by a whole number

Decimal place value

05.54 Decimals to the thousandths
05.55 Decimal numbers in word form
05.56 Decimal numbers in expanded form
05.57 Decimal place value patterns
05.58 Compare and order decimal numbers
05.59 Rounding decimals

Decimal operations

05.60 Add and subtract decimal numbers
05.61 Multiply decimals by whole numbers
05.62 Multiply decimals using area models
05.63 Multiply decimals using the standard algorithm
05.64 Multiply by decimal powers of ten
05.65 Divide by decimal powers of ten
05.66 Divide decimals by whole numbers
05.67 Divide whole numbers by decimals
05.68 Divide decimals by decimals
05.69 Express remainders as decimals

Measurement, shapes and volume

05.70 Customary and metric conversions
05.71 Classifying triangles
05.72 Classifying quadrilaterals
05.73 Units of measurement
05.74 Volume, stacking cubes
05.75 Volume, packing cubes
05.76 Find the volume of a rectangular prism with a formula
05.77 Find volume by decomposing composite figures

Graphing and patterns

05.78 Graphing ordered pairs
05.79 Analyze numerical patterns and relationships
05.80 Graphing numerical patterns

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Back to grade comparison