

Math TEKS for 5th Grade: 2013-2014

Primary Areas of Focus: Use of operations, determining/generating formulas & solutions to expressions, extending measurement to Area & Volume.

Cat. 1: Apply Place Value and Identify Part-to-Whole Relationships and equivalence

Cat. 2: Represent/solve problems w/expressions/equations, Build functions through patterns, Identify Prime/Composite #s, Use order of operations.

Cat. 3: Classify 2-D Figures & Connect geometric attributes to 3-D figures

Cat. 4: Use units of measurement & represent location using a coordinate plane

Cat. 5: Represent and Interpret Data

Note: Statements that contain "including" reference content that must be mastered, while "such as" are intended as possible illustrative examples.

Underlying Processes & Mathematical Tools

| PROCESS: (8 TEKS) | | *Incorporated into 75% of test questions* | 8-Week Periods: | 1st | 2nd | 3rd | 4th |
|--------------------------|---|--|------------------------|------------|------------|------------|------------|
| 5.14A | * | Identify Math in Everyday Life Situations | | | | | |
| 5.14B | * | Problem Solving Model - 1) Analyze Info, 2) Make a plan, 3) Solve, 4) Justify, & 5) Evaluate the process | | | | | |
| 5.14C | * | Select or Develop Problem-Solving Strategy: 1) Draw, 2) Find Pattern, 3) Guess/Check, 4) Acting, 5) Make a Table, 6) Work Simpler Problem, 7) Work Backwards | | | | | |
| 5.14D | * | Use Tools such as real objects, manipulatives, & technology to solve problems | | | | | |
| 5.15A | * | Explain & Record observations using objects, words, pictures, numbers, & technology | | | | | |
| 5.15B | * | Relate informal language to math language & symbols | | | | | |
| 5.16A | * | Make generalizations from patterns or sets of examples & non-examples | | | | | |
| 5.16B | * | Justify why an answer is reasonable and explain the solution process | | | | | |

Category 1: Numbers, Operations, & Quantitative Reasoning

| CONTENT: (30 TEKS) | | 8-Week Periods: | 1st | 2nd | 3rd | 4th |
|--|---|---|------------|------------|------------|------------|
| Place Value | | | | | | |
| 5.1A | S | Place Value through Billions (Read, Write, Compare, & Order) | | | | |
| 5.1B | S | Place Value Decimals through Thousandths (Read, Write, Compare, & Order) | | | | |
| Fractions | | | | | | |
| 5.2A | R | Generate Equivalent Fractions (ex. $1/2=3/6$) | | | | |
| 5.2B | S | Generate Mixed Number to Improper Fractions & Vice Versa | | | | |
| 5.2C | R | Compare Fractions using variety of methods (including common denominator) | | | | |
| 5.2D | S | Use Models to relate Decimals to Fractions (tenths, hundredths, thousandths) | | | | |
| 5.3E | S | Model situations using Add & Subtract Fractions with like denominators (use objects/pictures/#s, words) | | | | |
| Add, Subtract, Multiply, & Divide | | | | | | |
| 5.3A | R | Add & Subtract Whole Numbers & Decimals | | | | |
| 5.3B | R | Use Multiplication 3 by 2 to solve Word Problems (No tech) | | | | |
| 5.3C | R | Use Division 3 by 2 to solve Word Problems (include Interpreting Remainder) (No tech) | | | | |
| 5.3D | S | Identify Common Factors | | | | |
| Estimation | | | | | | |
| 5.4A | S | Use Rounding & Compatible Numbers to Estimate Solutions (A, S, M, & D Problems) | | | | |

Category 2: Patterns, Relationships, & Algebraic Reasoning

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|------|---|--|--|--|--|--|
| 5.5A | R | Describe Relationship of data in Graphic Organizers (Lists, Tables, Charts) | | | | |
| 5.5B | S | Identify Prime & Composite Numbers using objects/pictures/patterns of factor pairs | | | | |
| 5.6A | S | Select from & Use Diagrams & Equations ($y = 5 + 3$) to represent situations | | | | |

Category 3: Geometry & Spatial Reasoning

| | | | | | | |
|------|---|---|--|--|--|--|
| 5.7A | S | Identify Parallel, Perpendicular, & Congruent Parts of 2-D & 3-D Figures | | | | |
| 5.8A | R | Sketch the Results of Translation, Rotation, Reflection on Coordinate Grid | | | | |
| 5.8B | S | Identify Transformations on Coordinate Grid (Translation, Rotation, Reflection) | | | | |
| 5.9A | S | Locate and Name Points on Coordinate Grid (ordered pairs) | | | | |

8-Week Periods: 1st 2nd 3rd 4th

| Category 4: Measurement | | | | | |
|--|---|---|--|--|--|
| Measurement - Length | | | | | |
| 5.10A | S | Perform Measurement Conversions (Metric & Customary) | | | |
| 5.10B | S | Connect Models for Perimeter, Area, & Volume with Formulas | | | |
| 5.10C | R | Select & Use Appropriate Units to Measure Length, Perimeter, Area, & Volume | | | |
| Measurement - Temperature & Time | | | | | |
| 5.11A | S | Solve Problems involving Temperature Changes | | | |
| 5.11B | S | Solve Problems involving Elapsed Time | | | |
| Category 5: Probability & Statistics | | | | | |
| Probability Experiments | | | | | |
| 5.12A | S | Fractions to describe experiment results | | | |
| 5.12B | R | Using Results to Make Predictions | | | |
| 5.12C | S | List all possible outcomes of Probability Experiments (ex. Tossing a coin) | | | |
| Collect, Organize, Display, & Interpret Sets of Data | | | | | |
| 5.13A | S | Use Tables of Related Number Pairs to make Line Graphs | | | |
| 5.13B | R | Describe characteristics of data using Median, Mode, and Range | | | |
| 5.13C | S | Graph Data Appropriately (ex. pictures or line graphs) | | | |

| Summary of Readiness Standards (The Big Rocks) (10 of 31 TEKS) | | | |
|--|---|---|---|
| 5.2A | R | Generate Equivalent Fractions (ex. $1/2=3/6$) | Equivalent Fractions |
| 5.2C | R | Compare Fractions using variety of methods (including common denominator) | Compare Fractions |
| 5.3A | R | Add & Subtract Whole Numbers & Decimals | Add/Subtract Whole #s & Decimals |
| 5.3B | R | Use Multiplication 3 by 2 to solve Word Problems (No tech) | 3 by 2 Multiplication |
| 5.3C | R | Use Division 3 by 2 to solve Word Problems (include Interpreting Remainder) (No tech) | 3 by 2 Division |
| 5.5A | R | Describe Relationship of data in Graphic Organizers (Lists, Tables, Charts) | Graphic Organizers |
| 5.8A | R | Sketch the Results of Translation, Rotation, Reflection on Coordinate Grid | Translate, Reflect, Rotate |
| 5.10C | R | Select & Use Appropriate Units to Measure Length, Perimeter, Area, & Volume | Measure length, perimeter, area, & volume |
| 5.12B | R | Using Results to Make Predictions | Make predictions |
| 5.13B | R | Describe characteristics of data using Median, Mode, and Range | Mode, Median, & Range |

*3-4 questions will be asked on each of these (approximately 30 of 50 question on STAAR test)

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|---|---|
| STAAR Test: Tuesday, April 1, 2014, Last Day of School: Friday, May 23 | STAAR Retest: Tuesday, May 13 STAAR 2nd Retake: Tuesday, June 24 |
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