The Currculum Matrix is based on the twelve areas of the National council of Teachers Matematics standards. The areas are Algebra, Data Interpretation, Decmals, Fractions, Functions, Geometry, Mathematics Process, Measuremet, Number Theory, Numeration Technology, and Whole Numbers.

Each area of the standard, labeled a strand, is defined, competencies identified, and specific skills that address the competency listed for each level.

ALGEBRA

| Readiness | TEKS | K/A |
| :---: | :---: | :---: |
| Missing numbers and number sentences |  |  |
| Order of Operations |  |  |
| Multiple steps (see Mathmatical Process) |  |  |
| Number line |  |  |
| - whole numbers | K.2B,E,F | 38-42 |
| Exponents and powers |  |  |
| Scientific Notation |  |  |
| - positive powers of 10 |  |  |
| - negative power of 10 |  |  |
| Squares and square roots |  |  |
| Operations |  | K/A |
| Variables |  |  |
| Writing equations |  |  |
| Integers (Negtive/Positive) |  |  |
| - define |  |  |
| - compare/order |  |  |
| - addition/subtraction |  |  |
| - multiplication/division |  |  |
| Solve 1 step equations |  |  |
| - addition/subtraction |  |  |
| - multiplication/division |  |  |
| - input/output table |  |  |



| Tally chart and frequency distribution |  |  |
| :---: | :---: | :---: |
| Range, mode, median, mean |  |  |
| Sampling |  |  |
| Probability |  | K/A |
| Predicting outcomes |  |  |
| Probabilities | K.1G,F | 53-56 |
|  |  |  |
| Concepts |  | K/A |
| Meaning of decimals |  |  |
| Compare/order |  |  |
| Related to fractions |  |  |
| Related to percent |  |  |
| Related to money |  |  |
| Place value |  |  |
| Rounding |  |  |
| Operations |  | K/A |
| Addition |  |  |
| Subtraction |  |  |
| Multiplication |  |  |
| Division |  |  |
| - whole number divisor |  |  |
| - decimal divisor |  |  |
| - repeating decimals/terminating decimals |  |  |
| Estimating |  |  |
|  |  |  |
| Concepts |  | K/A |
| Part of a whole/part of a set | K.2C,D,E,G,I | 57-60 |
| Lowest terms/simplest form |  |  |



| Ordered pairs |  |  |
| :---: | :---: | :---: |
| Line graphs (See Data Interpretation) |  |  |
| Venn Diagrams |  |  |
| Graphing equations |  |  |
| GEOMETRY |  |  |
| Concepts |  | K/A |
| Segments/rays |  |  |
| Angles |  |  |
| - classify |  |  |
| - measuring |  |  |
| - complementary/supplementary |  |  |
| - vertical/corresponding/alternative interior |  |  |
| Lines |  |  |
| - parallel |  |  |
| - perpendicular |  |  |
| - parallel \& perpendicular |  |  |
| - symmetry |  |  |
| - skew |  |  |
| Congruence |  |  |
| Sides, corners, vertices, edges | K.6C,D | 61-69 |
| Transformations (slides, turns, flips) | K.7A | 70-72 |
| Solid Shapes <br> pyramid, prism) (sphere, cone, cylinder, cube, |  | K/A |
| Identify | K.6A,B,C,D | 73-75 |
| Sorting and Classifying | K.6E;K.7B | 76-78 |
| Plane Shapes |  | K/A |
| Open and closed |  |  |
| Polygons (quadrilaterals, square, pentagon, hexagon, octagon) |  |  |
| Triangles |  |  |
| - classify |  |  |


| - congruent |  |  |
| :---: | :---: | :---: |
| Parallelogram |  |  |
| Diagonals |  |  |
| Demensional Shapes |  | K/A |
| Recognize by given specifications |  |  |
| Pythagorean Theorem |  |  |
|  |  |  |
| Problem Solving |  | K/A |
| Choose an operation | K.1A, B, C | 79-83 |
| Multiple-step problems |  |  |
| Using Estimation |  |  |
| Make an organized list | K.1D,E,F,G | 84-88 |
| Make a table |  |  |
| Information - too much/too little |  |  |
| Reasoning |  | K/A |
| Sequencing | K. 5 | 89-93 |
| Classifying | K.1E;K.5;K.6E;K.8A | 94-98 |
| Compare/contrast | K. $2 \mathrm{E}, \mathrm{G}, \mathrm{H}$ | 99-103 |
| Generalizations | K.1A,B;K.8A | 104-108 |
| Drawing conclusions | K.1B;K.8C | 109-113 |
| Visual patterns (See Funtions) | K.1C;K.2B,C,D,E,G,I;K.3A,B | 164-168 |
| Reasoning | K.1B;K.8B | 114-118 |
| Computation Strategies |  | K/A |


| multiply/divide by multiples and powers of 10 |  |  |
| :---: | :---: | :---: |
| MEASUREMENT |  |  |
| Length |  | K/A |
| Nonstandard units | K. 7 | 119-122 |
| Standard units |  |  |
| Metric |  |  |
| Capacity |  | K/A |
| Nonstandard units | K. 7 | 123-126 |
| Standard units |  |  |
| Metric |  |  |
| Weight |  | K/A |
| Nonstandard units | K. 7 | 127-130 |
| Standard units |  |  |
| Metric |  |  |
| Converting Metrics |  |  |
| Reasoning |  | K/A |
| Fahrenheit |  |  |
| Celsius |  |  |
| Convert |  |  |
| Area - Volume |  | K/A |
| Perimeter |  |  |
| Area |  |  |
| Volume |  |  |
| Surface Area |  |  |
| Circumference |  |  |
| Circumference - Diameter/radius |  |  |
| Time |  | K/A |
| Elapsed |  |  |


| Clock | K.1C,F | 131-134 |
| :---: | :---: | :---: |
| Calendar | K.1C,F | 135-138 |
| Time zones |  |  |
| Money |  | K/A |
| Identify coins | K. 4 | 139-143 |
| Identify value | K. 4 | 145-147 |
| Making change |  |  |
| Value comparison | K. 9 | 148-151 |
| NUMBER THEORY |  |  |
| Number Sense |  | K/A |
| Counting | K.2A,C,D | 152-155 |
| Place value | K.2A,C,D | 156-159 |
| Integers |  |  |
| Greater than - less than | K.2E,F | 160-163 |
| Even and odd numbers |  |  |
| Prime and composite numbers |  |  |
| Prime factorizaion |  |  |
| Divisibility |  |  |
| Factors and greatest common factors |  |  |
| Multiples and least common multiples |  |  |
| Ratio and Proportion |  | K/A |
| Ratios |  |  |
| Equal ratios |  |  |
| Rate and unit price |  |  |
| Percent |  | K/A |
| Related to ratios |  |  |


| Related to fractions/decimals |  |  |
| :---: | :---: | :---: |
| Finding a percent of a number |  |  |
| Find what percent one number is of another |  |  |
| Find a number when a percent is known |  |  |
| Interest, discount, commission |  |  |
|  |  |  |
| Patterns |  | K/A |
| With objects/geometric figures | K.1C;K.2B,C,D,E,G,IK.;3A,B | 164-168 |
| With numbers |  |  |
| Skip counting |  |  |
| Patterns |  | K/A |
| Meaning of numbers | K.2A,B | 17-37 |
| Reading and writing numbers | K.2A,B;K. 5 | 7-16,169 |
| Ordinal numbers | K.2A,B;K. 5 | 170-179 |
| Roman Numerals |  |  |
| Estimation |  | K/A |
| Using front-end digits |  |  |
| Rounding whole numbers/decimals |  |  |
| Rounding fractions/mixed numbers |  |  |
| Compatible numbers |  |  |
| Clustering |  |  |
|  |  |  |
| Calculator |  | K/A |
| Whole number operation |  |  |
| Decimals/money |  |  |
| Fractions |  |  |
| Percent |  |  |
|  |  |  |
| Addition |  | K/A |


| Vocabulary of addition | K.3B | 180-184 |
| :---: | :---: | :---: |
| Related to subtraction |  |  |
| Fact families |  |  |
| Basic facts and fact strategies | K.3B | 185-189 |
| Properties |  |  |
| Three or more addends |  |  |
| Adding 2-digit numbers |  |  |
| - regrouping |  |  |
| Adding 3-digit numbers |  |  |
| - regrouping |  |  |
| Adding with 4 or more digits |  |  |
| - regrouping |  |  |
| Estimation and mental math |  |  |
| Subtraction |  | K/A |
| Vocabulary of subtraction | K.3B | 190-195 |
| Related to addition |  |  |
| Basic facts and fact strategies | K.3B | 196-200 |
| Subtracting 2-digit numbers | K.3B | 199-200 |
| - regrouping | K.3B |  |
| - with zeros |  |  |
| Subtracting 3-digit numbers |  |  |
| - regrouping |  |  |
| - with zeros |  |  |
| Subtracting with 4 or more digits |  |  |
| - regrouping |  |  |
| - with zeros |  |  |
| Estimation and mental math |  |  |
| Multiplication |  | K/A |
| Vocabulary of multiplication |  |  |
| Related to addition/division |  |  |
| Basic facts and fact strategies |  |  |


| Properties |  |  |
| :--- | :--- | :--- |
| By a 1-digit number |  |  |
| By multiples of 10 or more |  |  |
| By a multi-digit number |  |  |
| Estimation and mental math |  |  |
| Division |  | K/A |
| Vocabulary of division |  |  |
| Related to subtraction/multiplication |  |  |
| Basic facts and fact strategies |  |  |
| By a 1-digit divisor |  |  |
| By multiples of 10 and 100 |  |  |
| By a multi-digit divisor |  |  |
| Estimation and mental math |  |  |

