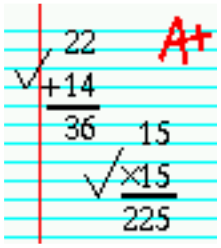
POWER STANDARDS

6th Grade Mathematics



By the end of the year each student will...

Key

0 – Not taught
1 - Not on target for mastery
2 - On target for mastery
3 – Near mastery
4 - Mastery

Number Sense & Operations

- ☐ add, subtract, multiply, and divide using multi-digits, fractions, decimals, and integers.
- ☐ recognize and write numbers from 1/1000 to 1,000,000,000.
- ☐ identify prime numbers, composite numbers, factors GCF, and multiples LCM.
- ☐ express numbers in expanded, scientific, and exponential notation.
- ☐ name, write, and compare fractions: halves, thirds, fourths, fifths, sixths, eighths, tenths, twelfths, and sixteenths.
- ☐ write equivalent fractions and identify simplest form.
- ☐ change fractions to decimals, and decimals to percentages.
- ☐ use a variety of mental math techniques (estimate and round).

Patterns

- ☐ apply the order of operations: PEMDAS (Parenthesis, Exponent, Multiplication & Division, and Addition & Subtraction).
- ☐ solve two-step equations with whole numbers and single variable (4x + 2 = 14).

Geometry

- ☐ identify lines, segments, rays, and midpoints.
- ☐ explain the difference between parallel and perpendicular, and convex and concave.
- ☐ identify the parts of a circle and calculate area and circumference.
- ☐ identify faces, vertices, and edges of three dimensional objects.
- ☐ identify, write, and graph an order pair for a point in all 4 quadrants.

Measurement

- ☐ calculate the area and perimeter of triangles, rectangles, and parallelograms.
- ☐ measure, contrast, and compare length accurately in customary and metric systems.

Data Organization

- ☐ collect, organize, create, and analyze and compare data to create graphs (bar graphs, line graphs, frequency tables, stem & leaf, circle graphs, scatter plots, line plots, etc.).
- ☐ recognize that changing the scale influences the appearance of a display of data.
- ☐ learn to think (if the answer looks reasonable, it probably is).

06/05

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