



# POWER STANDARDS

## 4th Grade Mathematics

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

### Number Sense & Operations Key

- recognize and write numbers using place value and expanded notation from tenths to 100,000 ex:  $4265=4,000 + 200 + 60 + 5$
- order and compare whole numbers and decimals to tenths.
- know multiplication facts up to nines.
- Understand process of multiplying 2 digits by 1 digit.
- use a variety of strategies to solve story problems.
- divide 2 digit by 1 digit, including remainders.
- name, write and compare fractions: halves, thirds, fourths, fifths, sixths, eighths, and tenths.
- relate fractions to decimals to hundredths
- add and subtract money.

### Patterns

- solve equivalent equations ( $6 \times 2 = \square \times 3$  or  $6 \times \square = 9 + 9$ ).
- demonstrate the distribution of multiplication over addition using a rectangular array ( $8 \times 14 = 8$  rows of 10, 8 rows of 4).
- solve equations involving 2 operations ( $4 \times 3 + 2 = \square$ ).

### Geometry

- identify, draw, compare, and describe: parallel lines, intersecting lines, quadrilaterals.
- understand and determine congruency, similarity, and lines of symmetry on polygons.
- identify slide (translation), flip (reflection), and turn (rotate) using manipulatives.

### Measurement

- read time identifying AM and PM on a face clock.
- find perimeter and area of rectangles.
- Basic understanding of metric and customary

### Data Organization

- collect, read, represent, and interpret data from tables, graphs, charts, surveys, and observations.