

Math – Order of Instruction

Each class is different. While some classes may be weak in math, others may progress more quickly than is outlined in the course curriculum. Many worksheets can be found on flash drive/ binder; however, additional exercises can be easily created on www.math-drills.com.

Extra practice with each math skill should be also practiced and applied in word problems. A good book series for word problems is McGraw-Hill's Number Power series: Number Power 2: Fractions, Decimals, and Percents, Number Power 3: Algebra, Number Power 4: Geometry, Number Power 6: Word Problems, and Number Power 9: Measurement.

The suggested order of instruction is as follows:

Measurement (lengths)

- using a ruler
- using a tape measure
- comparing measurements
- adding/subtracting measurements
- multiplying/dividing measurements
- word problems

Fractions

- fraction forms
- simplifying fractions
- comparing fractions
- mixed numbers/ improper fractions
- adding/subtracting fractions
- multiplying/ dividing fractions
- word problems

Decimals

- decimal forms
- comparing decimals
- adding/subtracting decimals
- multiplying/dividing decimals
- word problems

Basic Algebra

- exponents
- square roots
- order of operations

- basic algebraic expressions $a + b = c$
- manipulation of algebraic expressions $a + b = c$, so $a = c - b$
- word problems

Proportions

- using proportions to solve problems (measurement, scales)
- word problems

Geometry

- circles – circumference, area, degrees
- squares – perimeter, area
- angles – complementary, supplementary, perpendicular lines and angles
- triangles – perimeter, area, Pythagorean theorem, angles
- word problems