Placement Test Concepts
Math

BROOK HILLS CO-OP

All grade levels will take a TIMED 30 question math facts quiz consisting of addition, subtraction, multiplication, and division problems

Math 7/8
- place value
- operations - addition, subtraction, multiplication and division
- perimeter
- estimation
- word problems with basic operations
- proportions
- multiplication of whole numbers by fractions
- decimal operations

Pre-Algebra
- order of operations (PEMDAS)
- exponents and square roots
- addition and subtraction of positive and negative numbers
- average
- greatest common factor
- least common multiple
- addition, subtraction, multiplication, and division of fractions
- solving equations
- addition, subtraction, multiplication, and division of decimals
- conversion of metric units (from cm to m, km to m, etc.)
- percentages

Algebra I
- greatest common factor and least common multiple
- long division
- average
- scientific notation

- unit conversions
- evaluating algebraic expressions using the order of operations
- fractions, decimals, percents
- solving two-step equations
- circumference/area of circles, volume/surface area of prisms
- plotting points on a coordinate plane
- ratios and proportions

Geometry
- systems of equations
- solving equations
- using pythagorean theorem
- graphing
- evaluating expressions and equations
- determining the perimeter, area, surface area, and volume of 3-d shapes
- factoring trinomials

Algebra 2
- factoring trinomials
- range, mean, median, mode
- simplifying expressions
- evaluating expressions (with roots, exponents, absolute value, signed numbers)
- determining the perimeter, area, surface area, and volume of 3-d figures
- graphing
- systems of equations
- least common multiple
- solving equations
- multiplying polynomial expressions