



Middle Level ISEE Concepts Checklist

Verbal Reasoning

Vocabulary	
Synonym	
Sentence completion	

Reading Comprehension

Main idea	
Finding details in a passage	
Inferencing	
Author's purpose / tone of the passage	
Vocabulary in context	

Math

Numbers and Operations	
Place value	
Rounding	
Estimating	
Exponents	
Square roots	
Negative numbers	
Order of operation	
Distributive property	
Absolute value	

Fractions	
Adding / subtracting / multiplying / dividing fractions	
Comparing fractions	
Changing mixed numbers to improper fractions	
Greatest common factor	
Least common multiple	

Decimals	
Adding / subtracting / multiplying / dividing decimals	
Converting fractions to decimals	
Rounding decimals	

Algebra	
Simplifying algebraic expressions	
Solving one-step equations	
Solving two-step equations	



Percents	
Changing a percent into a fraction or decimal	
Finding the value of a percent of a number	
Percent word problems	

Word Problems	
Percent word problems	
Area word problems	
Word problems containing fractions and decimals	
Rate and probability word problems	

Geometry	
Points / lines / segments / angles in a shape	
Measuring angles	
Features and angles of a quadrilateral	
Features and angles of a circle	
Features and angles of a triangle	
Similar figures	

Measurement	
Converting between units of measurements	
Finding the perimeter and area of a triangle	
Finding the perimeter and area of a quadrilateral	
Finding the circumference and area of a circle	
Finding the volume of a 3-D shape	

Data Analysis	
Finding points on a graph	
Finding the slope of a line	
Interpreting graphs	
Finding the mean / median / mode / range	
Probability	
Ratios	