



Upper 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	
Multiplying and dividing with exponents	

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	
Operations with algebraic expressions	
Simplifying algebraic expressions	
Solving algebraic equations	
Solving inequalities	



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

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	
Pythagorean theorem	

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	
Finding the perimeter and area of irregular shapes	
Finding the rate/distance	

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