

# Standards Matrix: GEARs!

TASK: GEARs! Grades 6 – 8	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=
<b>Student's Holistic or Analytical Score:</b>	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=	H= U= S= C=
<b>STRAND: Number Sense and Operations</b>						
<b>GRADE 5</b>						
Uses a variety of strategies, including calculators and geometric models, to find factors, multiples, primes, even/odd numbers, and square numbers, and to explain number composition.						
<b>GRADE 6</b>						
<b>Finds</b> Greatest Common Factor (GCF) and Least Common Multiple (LCM) using a variety of strategies, including prime factorization.						
<b>Determines</b> when an exact answer is necessary or when an estimate is appropriate (e.g., medicine dosage vs number of people at a concert).						
<b>GRADE 7</b>						
<b>Translates</b> problem-solving strategies into efficient computation using appropriate mathematical terminology.						
<b>Explains</b> the relationship that can be expressed as ratios of part-to-whole (e.g., 5 red apples out of a total of 8 apples, expressed as 5/8).						

<b>Explains</b> the relationship that can be expressed as part-to-part (e.g., 5 red apples, 3 green apples, expressed as $\frac{5}{3}$ ).							
<b>Explains</b> relationships that can be expressed as proportions or percents (e.g., $\frac{1}{2} = 50\%$ ).							
<b>GRADE 8</b>							
<b>Selects</b> the appropriate representations to describe thought provoking real-life situations.							
<b>Manipulates</b> all real numbers, their properties, and operations.							
<b>Develops</b> and <b>evaluates</b> arguments involving real numbers, their patterns and operations.							
<b>Develops</b> and <b>uses</b> strategies to estimate the results of rational-number computations and <b>judges</b> the reasonableness of the results.							
<b>STRAND: Geometry, Spatial Sense and Measurement</b>							
<b>GRADE 4</b>							
<b>Represents</b> and <b>solves</b> real-world problems using geometric models.							
<b>GRADE 6</b>							
<b>Explains</b> the properties of circles.							



