7th Grade Module 1 – Ratios and Proportional Relationships

	4 - Mastery	3 - Proficient	2 - Basic	1 - Below Basic	0 - No Evidence
Topic A and B (7.RP.2)	Meets **all** of the criteria in a Level 3 **Completes tasks including synthesis and evaluation**	**Explain** whether two quantities are proportional using a table and a graph Identify the constant of proportionality (unit rate) from **all** of the following: tables, graphs, equations, diagrams and verbal descriptions. **Write** an equation that represents a proportional relationship Explain what **all** of the following points mean on a graph in terms of the situation: (x,y),(0,0) and (1,r)	Decide whether two quantities are proportional using a table **and** a graph Identify the constant of proportionality (unit rate) from **three** of the following: tables, graphs, equations, diagrams and verbal descriptions. **Identify** an equation that represents a proportional relationship Explain what **two** of the following points mean on a graph in terms of the situation: (x,y),(0,0) and (1,r)	Decide whether two quantities are proportional using a table **or** graph Identify the constant of proportionality (unit rate) from **two** of the following: tables, graphs, equations, diagrams and verbal descriptions. Explain what **one** of the following points mean on a graph in terms of the situation: (x,y),(0,0) and (1,r)	**Shows no evidence of proficiency** Little evidence of reasoning or application to solve the problem.
Topic C (7.RP.1 and 7.RP.3)	Meets **all** of the criteria in a Level 3 **Completes tasks including synthesis and evaluation**	Compute unit rates associated with ratios of **fractions and mixed numbers.** Use proportional relationships to solve **multi-step** problems in real-world situations	Compute unit rates associated with ratios consisting of **at least one fraction.** Use proportional relationships to solve problems **in real world situations**.	Computes unit rates associated with ratios without fractions. Use proportional relationships to solve problems.	**Shows no evidence of proficiency** Little evidence of reasoning or application to solve the problem.
Topic D (7.RP.2b and 7.G.1)	Meets **all** of the criteria in a Level 3 **Completes tasks including synthesis and evaluation**	Determine the scale factor from a problem and solve problems to compute length and **area and reproduce a scale drawing using a different scale factor**	Determine the scale factor from a problem and solve problems to compute length **and area**	Determine the scale factor from a problem and use it to solve problems to **compute lengths**	**Shows no evidence of proficiency** Little evidence of reasoning or application to solve the problem.

7.RP.2 Recognize and represent proportional relationships between quantities.

a) Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin
b) Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
c) Represent proportional relationships by equations
d) Explain what a point *(x, y)* on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, *r)* where *r* is the unit rate.

7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.

7.RP.3 Use proportional relationships to solve multi-step ratio ~~and percent~~ problems.

7.G.1 Solve problems involving scale drawings of geometric figures, including computing actual lengths of areas from a scale drawing and reproducing a scale drawing at a different scale.