Math Grade 7

Year at a Glance

SHARYLAND INDEPENDENT SCHOOL DISTRICT
Excellence is our Tradition
Trust • Communication • Collective Responsibility • Care • Pride

Spiraled TEKS	*7.1A-G*			
SEM 1 Unit Name	**Unit 1: Rational Numbers**	**Unit 2: Ratios, Proportions, and Percents**	**Unit 3: Liner Relationships and Equations and Inequalities**	**Unit 4: Similar Figures**
Learning Objectives	TLW calculate and categorize rational numbers.	TLW use reasoning about ratios, rates, proportionality, and percents to solve for unknowns in world problems.	TLW describe linear relationships in multiple ways including tables, equations, and graphs. TLW solve and graph solutions involving inequalities.	TLW apply proportions when solving for similar figures and scaling in real world problems.
Content	● Calculations of rational numbers ● Relationships between sets of rational numbers	● Rates and proportionality ● Proportions using percents ● Measurement conversions ● Proportions in geometry	● Linear relationships ● Equations and inequalities	● Proportionality in geometry
TEKS	**Unit TEKS:** *7.2, 7.3A, 7.3B*	**Unit TEKS:** *7.4A-E*	**Unit TEKS:** *7.7A, 7.10A-C, 7.11A-B*	**Unit TEKS:** *7.5A-C*
SEM 2 Unit Name	**Unit 5: Geometry Concepts, Volume, and Surface Area**	**Unit 6: Probability**	**Unit 7: Data**	**Unit 8: Personal Financial Literacy**
Learning Objectives	TLW use geometric concepts and formulas (area, perimeter, circumference, volume, and surface area) to find solutions in real world problems.	TLW use ratios and proportions to make predictions in theoretical and experimental probability.	TLW be able to make inferences and comparisons between random samples of population data. TLW understand how data can be represented in multiple ways including bar graphs, dot plots, box plots, and circle graphs.	TLW understand the importance of personal budgets and net worth in preparing for their financial future.
Content	● Applications of geometry ● Formulas involving 3-dimensional geometric figures	● Theoretical and experimental probabilities	● Graphs ● Comparisons between populations	● Personal budgets ● Net worth
TEKS	**Unit TEKS:** *7.8A-C, 7.9A-D, 7.11C*	**Unit TEKS:** *7.6A-E, 7.6H, 7.6I*	**Unit TEKS:** *7.6F, 7.6G, 7.12A-C*	**Unit TEKS:** *7.13A-F*