

## 3<sup>rd</sup> Nine Weeks TEKS 7<sup>th</sup> Grade Regular Mathematics

**Week 1** - describe  $n$  as the ratio of the circumference of a circle to its diameter.[7.5B]

determine the circumference and area of circles.[7.9B]

**Week 2** - determine the circumference and area of circles.[7.9B]

determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles.[7.9C]

**Week 3** - solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net.[7.9D]

**Week 4** - solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net.[7.9D]

**Week 5** - model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas.[7.8A]

explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas.[7.8B]

solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.[7.9A]

**Week 6** - solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.[7.9A]

**Week 7** - solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.[7.9A]

**Week 8** - use data from a random sample to make inferences about a population.[7.12B]

compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations.[7.12C]

solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents.[7.6G]

**Week 9** - compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads.[7.12A]

### 3<sup>rd</sup> Nine Weeks 7<sup>th</sup> Grade GT/ACC Mathematics TEKS

**Week 1** - model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas.[7.8A]

explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas.[7.8B]

solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.[7.9A]

**Week 2** - solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids.[7.9A]

describe the volume formula  $V = Bh$  of a cylinder in terms of its base area and its height.[8.6A]

model the relationship between the volume of a cylinder and a cone having both congruent bases and heights and connect that relationship to the formulas.[8.6B]

**Week 3** - solve problems involving the volume of cylinders, cones, and spheres.[8.7A]

**Week 4** - solve problems involving the volume of cylinders, cones, and spheres.[8.7A]

use previous knowledge of surface area to make connections to the formulas for lateral and total surface area and determine solutions for problems involving rectangular prisms, triangular prisms, and cylinders.[8.7B]

**Week 5** - use previous knowledge of surface area to make connections to the formulas for lateral and total surface area and determine solutions for problems involving rectangular prisms, triangular prisms, and cylinders.[8.7B]

construct a scatterplot and describe the observed data to address questions of association such as linear, non-linear, and no association between bivariate data.[8.11A]

contrast bivariate sets of data that suggest a linear relationship with bivariate sets of data that do not suggest a linear relationship from a graphical representation.[8.5C]

use a trend line that approximates the linear relationship between bivariate sets of data to make predictions.[8.5D]

**Week 6** - determine the mean absolute deviation and use this quantity as a measure of the average distance data are from the mean using a data set of no more than 10 data points.[8.11B]

**Week 7** - determine the mean absolute deviation and use this quantity as a measure of the average distance data are from the mean using a data set of no more than 10 data points.[8.11B]

use data from a random sample to make inferences about a population.[7.12B]

compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations.[7.12C]

simulate generating random samples of the same size from a population with known characteristics to develop the notion of a random sample being representative of the population from which it was selected.[8.11C]

**Week 8** - calculate and compare simple interest and compound interest earnings.[8.12D]

estimate the cost of a two-year and four-year college education, including family contribution, and devise a periodic savings plan for accumulating the money needed to contribute to the total cost of attendance for at least the first year of college.[8.12G]

explain how small amounts of money invested regularly, including money saved for college and retirement, grow over time.[8.12C]

**Week 9** - solve real-world problems comparing how interest rate and loan length affect the cost of credit.[8.12A]

calculate the total cost of repaying a loan, including credit cards and easy access loans, under various rates of interest and over different periods using an online calculator.[8.12B]

identify and explain the advantages and disadvantages of different payment methods.[8.12E]

analyze situations to determine if they represent financially responsible decisions and identify the benefits of financial responsibility and the costs of financial irresponsibility.[8.12F]

### 3<sup>rd</sup> Nine Weeks 8<sup>th</sup> Grade Regular Mathematics TEKS

**Week 1** - use previous knowledge of surface area to make connections to the formulas for lateral and total surface area and determine solutions for problems involving rectangular prisms, triangular prisms, and cylinders.[8.7B]

**Week 2** - construct a scatterplot and describe the observed data to address questions of association such as linear, non-linear, and no association between bivariate data.[8.11A]

contrast bivariate sets of data that suggest a linear relationship with bivariate sets of data that do not suggest a linear relationship from a graphical representation.[8.5C]

use a trend line that approximates the linear relationship between bivariate sets of data to make predictions.[8.5D]

**Week 3** - determine the mean absolute deviation and use this quantity as a measure of the average distance data are from the mean using a data set of no more than 10 data points.[8.11B]

simulate generating random samples of the same size from a population with known characteristics to develop the notion of a random sample being representative of the population from which it was selected.[8.11C]

calculate and compare simple interest and compound interest earnings.[8.12D]

**Week 4** - calculate and compare simple interest and compound interest earnings.[8.12D]

**Week 5** - estimate the cost of a two-year and four-year college education, including family contribution, and devise a periodic savings plan for accumulating the money needed to contribute to the total cost of attendance for at least the first year of college.[8.12G]

explain how small amounts of money invested regularly, including money saved for college and retirement, grow over time.[8.12C]

solve real-world problems comparing how interest rate and loan length affect the cost of credit.[8.12A]

calculate the total cost of repaying a loan, including credit cards and easy access loans, under various rates of interest and over different periods using an online calculator.[8.12B]

identify and explain the advantages and disadvantages of different payment methods.[8.12E]

**Week 6** - analyze situations to determine if they represent financially responsible decisions and identify the benefits of financial responsibility and the costs of financial irresponsibility.[8.12F]

**Week 7 – Week 9 : STAAR Review**

3<sup>rd</sup> Nine Weeks Algebra 1 TEKS