

**7th Grade Math Pacing Guide**

Measurement topics are listed in suggested order of instruction.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  **Measurement****Topic** | **3.0 Element** | **Accomplish Score** | **Where do I need to focus/Thoughts** |
| **First Quarter** |
| **Q1** | **Signed Numbers and Absolute Value** | **7.SNAV1**—Solve problems using the properties of additive inverses**7.SNAV2**—Multiply and divide signed numbers**7.SNAV3**—Solve problems involving absolute values, including problems with real-world contexts |  |  |
| **Converting Fractions, Decimals, & Percents** | **7.CFDP1**—Convert numbers in decimal form to simplified fractions**7.CFDP2**—Use long division to convert fractions to decimal form**7.CFDP3**—Convert between decimal form and percentages |  |  |
| **Second Quarter** |
| **Q2** | **Linear Equations** | **7.LE1**—Compare arithmetic solutions to algebraic solutions for problems involving one- and two-step linear equations**7.LE2**—Solve problems involving linear equations in two variables**7.LE3**—Graph the ordered pairs that result from evaluating linear equations in two variables |  |  |
| **Inequalities** | **7.I1**—Solve word problems involving multi-step inequalities and describe the solution set in terms of the context**7.I2**—Graph the solution set of a multi step inequality on a number line |  |  |
| **Proportional Relationships** | **7.PR1**—Identify proportional relationships from sets of bivariate data**7.PR2**—Identify proportional relationships from graphs**7.PR3**—Write equations that represent proportional relationships to solve multistep ratio and percent problems |  |  |
| **Third Quarter** |
| **Q3** | **Circle** | **7.C1**—Approximate the value of the constant pi ($π$) using the relationship between the diameter and circumference of a circle$π$) using the relationship between the diameter and circumference of a circle**7.C2**—Solve problems using the formula for the circumference of a circle**7.C3**—Solve problems using the formula for the area of a circle |  |  |
| **Area and Volume** | **7.AV1**—Solve problems using the area formulas for various polygonal figures**7.AV2**—Solve problems involving the surface area of polyhedra**7.AV3**—Solve problems using the volume formula for right prisms |  |  |
| **Analyzing Geometric Figures** | **7.AGF1**—Describe the three-dimensional figures that result from manipulating two-dimensional figures**7.AGF2**—Describe the two-dimensional figures that result from slicing three-dimensional figures |  |  |
| **Transformations of Geometric Figures** | **7.TGF1**—Transform geometric figures, including by graphing vertices**7.TGF2**—Scale geometric figures by computing and drawing measurements |  |  |
| **Angle Relationships** | **7.AR1**—Use the relationships between complementary and supplementary angles to determine unknown angle measures**7.AR2**—Use the relationship between vertical angles to determine unknown angle measures |  |  |
| **Constructing Triangles** | **7.CT1**—Construct possible triangles from given angle measures**7.CT2**—Construct possible triangles from three given side lengths |  |  |
| **Fourth Quarter** |
| **Q4** | **Representative Samples** | **7.RS1**—Make inferences about a population based on a sample**7.RS2**—Gauge the accuracy of inferences about a population by generating multiple samples |  |  |
| **Comparing Distributions** | **7.CD1**—Compare data sets using measures of central tendency and variability**7.CD2**—Make comparative inferences about separate populations based on numerical data from random samples |  |  |
| **Simple Probability Models** | **7.SPM1**—Develop simple uniform theoretical probability models**7.SPM2**—Develop simple probability models from observed experiments**7.SPM3**—Compare the observed results of an experiment to those predicted by a probability model |  |  |
| **Probability of Compound Events** | **7.PCE1**—Calculate the probability of compound events from a representation of the sample space**7.PCE2**—Calculate the probability of compound events using simulation |  |  |