Math Grade 7 Semester 2 Final Assessment Blueprint

Year: 2024-2025 **Method of Delivery:** Online
Subject: Math **Administration Window:** May 12-22

Resources

Grade 7 Curriculum Map

Standards At-A Glance

Standard	Number of Items	Standard Description
MA.7.EE.B.3	2	Solve multi-step mathematical problems and problems in real-world context posed with positive and negative rational numbers in any form. Convert between forms as appropriate and assess the reasonableness of answers.
MA.7.G.A.1	1	Solve problems involving scale drawings of geometric figures, such as computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
MA.7.G.A.2	1	Draw geometric shapes with given conditions using a variety of methods. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no
MA.7.G.A.3	1	Describe the two-dimensional figures that result from slicing three-dimensional figures.
MA.7.G.B.4	3	Understand and use the formulas for the area and circumference of a circle to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
MA.7.G.B.5	2	Use facts about supplementary, complementary, vertical, and adjacent angles in multi-step problems to write and solve simple equations for an unknown angle in a figure.
MA.7.G.B.6	4	Solve mathematical problems and problems in a real-world context involving area of two-dimensional objects composed of triangles, quadrilaterals, and other polygons. Solve mathematical problems and problems in real-world context
MA.7.RP.A.2	4	Recognize and represent proportional relationships between quantities.
MA.7.RP.A.2.b	1	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
MA.7.RP.A.3	7	Use proportional relationships to solve multi-step ratio and percent problems (e.g., simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error).
MA.7.SP.A.1	1	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population.
MA.7.SP.A.2	1	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.
MA.7.SP.B.4	1	Understand and use the formulas for the area and circumference of a circle to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
MA.7.SP.C.5	1	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability
MA.7.SP.C.6	1	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.
MA.7.SP.C.7	1	Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies. If the agreement is not good, explain possible sources of the discrepancy.
MA.7.SP.C.7.b	1	Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.

** Some items are tagged to more than one standard.*

Depth of Knowledge

DOK	Number of Items
Level 1: Recall	12
Level 2: Skill/Concept	16
Level 3: Strategic Thinking	2

Item Types Included

Type	Number of Items	Description
MC	30	Multiple Choice - Select one answer