

7th Grade Math (2020-2021)

Curriculum and Pacing Guide

Chapter	Topic	Standards	Days
Introduction	Mathematical Processes Handbook		2 Days (Aug 24-25)
	Apply Math to the Real World, Use a Problem Solving Model	7.1A, 7.1B	0.5
	Select Tools and Techniques, Use Multiple Representations	7.1C, 7.1D	0.5
	Organize Ideas, Analyze Relationships	7.1E, 7.1F	0.5
	Justify Arguments, Review	7.1G	0.5
Chapter 1	Rational Numbers		14 days (Aug 26-Sep16)
Hands-on Lab 1-a	Model Rational Numbers	7.2	0.5
Lesson 1.1	Terminating and Repeating Decimals	7.2	1.0
Hands-on Lab 2-a	Sets of Rational Numbers	7.2	0.5
Lesson 1.2	Relationships Between Sets of Rational Numbers	7.2	1.0
Lesson 1.3	Add and Subtract Integers	7.3A, 7.3B	1.0
Lesson 1.4	Multiply and Divide Integers	7.3A, 7.3B	1.0
Focus	The Four-Step Plan	7.3A	0.5
Mid-Chapter Check	Quiz		0.5
Hands-on Lab 5-a	Use Models to +/- Rational Numbers	7.3A	0.5
Lesson 1.5	Fluently +/- Rational Numbers: Like Fractions	7.3A, 7.3B	1.0
Lesson 1.6	Fluently +/- Rational Numbers: Unlike Fractions	7.3A, 7.3B	1.0
Lesson 1.7	Fluently +/- Rational Numbers: Mixed Numbers	7.3A, 7.3B	1.0
Lesson 1.8	Fluently Multiply Rational Numbers	7.3A, 7.3B	1.0
Lesson 1.9	Fluently Divide Rational Numbers	7.3A, 7.3B	1.0
Apply	Fashion Designer	7.3A, 7.3B	0.5
Review			1.0
Assess	Chapter Assessment		1.0
Chapter 2	Proportional Relationships		14 days (Sept 17-Oct 8)
Hands-on Lab 1-a	Ratios and Rates	7.4B, 7.4D	0.5
Lesson 2.1	Unit Rates	7.4B, 7.4D	1.0
Lesson 2.2	Complex Fractions And Unit Rates	7.4B, 7.4D	1.0
Lesson 2.3	Convert Unit Rates	7.4B, 7.4D	1.0
Lesson 2.4	Proportional and Nonproportional Relationships	7.4D	1.0
Focus	Draw a Diagram	7.4B, 7.4D	0.5
Mid-Chapter Check	Quiz		0.5
Lesson 2.5	Graph Proportional Relationships	7.4A, 7.4D	1.0
Hands-on Lab 5-b	Model Proportional Relationships	7.4D	0.5
Lesson 2.6	Solve Proportional Relationships	7.4D	1.5
Lesson 2.7	Convert Between Systems	7.3A, 7.4E	1.0
Hands-on Lab 8-a	Rate of Change	7.4A, 7.4D	0.5
Lesson 2.8	Constant Rate of Change	7.4A, 7.4D	1.0
Lesson 2.9	Constant of Proportionality	7.4A, 7.4C	1.0
Apply	Biochemical Engineering	7.4A, 7.4D	0.5

Chapter/Lesson	Topic	Standards	Days
Chapt.2 cont'd.			
Review			0.5
Assess	Chapter 2 Assessment		1.0
Chapter 3	Apply Proportionality to Percent		15 days (Oct 13- Nov 3)
Hands-on Lab 1-a	Percent Diagrams	7.4D	0.5
Lesson 3.1	Percent of a Number	7.4D	1.0
Lesson 3.2	Percent and Estimation	7.4D	1.0
Hands-on Lab 3-a	Find Percents	7.4D	0.5
Lesson 3.3	The Percent Proportion	7.4D	1.0
Lesson 3.4	The Percent Equation	7.4D	1.0
Focus	Determine Reasonable Answers	7.4D	0.5
Mid-Chapter Check	Quiz		0.5
Hands-on Lab 5-a	Model Percent of Change	7.4D	0.5
Lesson 3.5	Percent of Change	7.4D	1.0
Lesson 3.6	Financial Literacy: Sales Tax, Tips & Mark-up	7.4D	1.5
Lesson 3.7	Discount	7.4D	1.0
Lesson 3.8	Financial Literacy: Simple Interest	7.4D	1.5
Spreadsheet Lab 8-b	Compound Interest	7.4D, 7.13E	0.5
Apply	Video Game Design	7.4D, 7.13E	1.0
Review			1.0
Assess	Chapter 3 Assessment		1.0
Chapter 4	Apply Proportionality to Geometry		10 days (Nov 4-19)
Hands-on Lab 1-a	Investigate Online Maps and Scale Drawings	7.5C	0.5
Lesson 4.1	Scale Drawings	7.5C	1.0
Hands-on Lab 2-a	Similar Triangles	7.5A, 7.5C	0.5
Lesson 4.2	Critical Attributes of Similar Figures	7.5A, 7.5C	1.0
Focus	Make a Model	7.5C	0.5
Mid-Chapter Check	Quiz		0.5
Hands-on Lab 3-a	Changes in Perimeter and Area	7.5A, 7.5C	0.5
Lesson 4.3	Changes in Dimension	7.5A, 7.5C	1.5
Hands-on Lab 4-a	Model Circumference	7.5B, 7.8C	0.5
Lesson 4.4	Circumference	7.5B, 7.9B	1.0
Apply	Roller Coaster Design	7.5C	0.5
Review			1.0
Assess	Chapter 4 Assessment		1.0
Chapter 5	Apply Proportionality to Probability		13 days (Nov 30-Dec 17)
Hands-on Lab 1-a	Sample Spaces	7.6A	0.5
Lesson 5.1	Probability of Simple Events	7.6A, 7.6E	1.0
Hands-on Lab 2-a	Make Predictions	7.6C, 7.6H	0.5
Lesson 5.2	Theoretical and Experimental Probability	7.6D, 7.6I	1.0
Hands-on Lab 2-b	Experimental Data	7.6C, 7.6I	0.5
Lesson 5.3	Probability of Compound Events	7.6D, 7.6I	2.0
Focus	Act It Out	7.6H	0.5
Mid-Chapter Check	Quiz		0.5
Virtual Manipulative Lab 4-a	Simulate Simple Events	7.6B	0.5
Lesson 5.4	Simulations	7.6B	1.0
Hands-on Lab 4-b	Simulate Compound Events	7.6B	0.5
Hands-on Lab 5-a	Independent and Dependent Events	7.6B, 7.6I	0.5
Lesson 5.5	Independent and Dependent Events	7.6A, 7.6D	1.5
Apply	Pediatricians	7.6I	0.5

Chapter/Lesson	Topic	Standards	Days
Chapt.5 cont'd.			
Review			1.0
Assess	Chapter 5 Assessment		1.0
	Mid-Year Review and Assessment (MOY)		4 days (Jan 5-8)
Chapter 6	Multiple Representations of Linear Relationships		11 days (Jan 11- 27)
Hands-on Lab 1-a	Linear Relationships	7.7	0.5
Lesson 6.1	Identify Linear Relationships	7.7	1.0
Lesson 6.2	Equations of Linear Relationships	7.7	1.0
Focus	Make a Table	7.7	0.5
Mid-Chapter Check	Quiz		0.5
Lesson 6.3	Slope	7.7	1.0
Graphing Technology Lab 4-a	Nonproportional Linear Relationships	7.7	1.0
Lesson 6.4	Slope-Intercept Form	7.7	1.0
Lesson 6.5	Write Equations from Tables and Graphs	7.7	1.0
Graphing Technology Lab 5-b	Family of Linear Relationships	7.7	1.0
Apply	Shark Scientist	7.7	0.5
Review			1.0
Assess	Chapter 6 Assessment		1.0
Chapter 7	Equations and Inequalities		14 days (Jan 29-Feb 18)
Lesson 7.1	Equations and Inequalities	7.11B	2.0
Lesson 7.2	Solve One-Step Equations	7.10A	1.0
Hands-on Lab 3-a	Model and Solve Equations with Rational Coefficients	7.11A	1.0
Lesson 7.3	Solve Equations with Rational Coefficients	7.10A	1.0
Hands-on Lab 4-a	Model and Solve Two-Step Equations	7.10A, 7.11A	0.5
Lesson 7.4	Solve and Write Two-Step Equations	7.10B, 7.11A	1.0
Focus	Work Backward	7.10A	0.5
Mid-Chapter Check	Quiz		0.5
Hands-on Lab 5-a	Model Two Step Equations using the Distributive Property	7.10C, 7.11A	0.5
Lesson7.5	Solve Two Step Equations using the Distributive Property	7.10C, 7.11A	1.0
Lesson 7.6	Solve One-Step Inequalities	7.10A	1.0
Hands-on Lab 7-a	Model and Solve Two-Step Inequalities	7.10C, 7.11A	0.5
Lesson 7.7	Solve And Write Two-Step Inequalities	7.10A, 7.11A	1.0
Apply	Veterinary Technician	7.11A	0.5
Review			1.0
Assess	Chapter 7 Assessment		1.0
Chapter 8	Develop Geometry with Algebra		18 days (Feb 19-Mar 26)
Lesson 8.1	Angle Relationships	7.11C	1.0
Lesson 8.2	Complementary and Supplementary Angles	7.11C	1.0
Geometry Software Lab 3-a	Angles in Triangles	7.11C	1.0
Lesson 3	Sum of Angles in Triangles	7.11C	1.0
Hands-on Lab 4-a	Model Area of Circles	7.8C, 7.9B	1.0
Lesson 8.4	Area of Circles	7.8C, 7.9B	1.0

Chapter/Lesson	Topic	Standards	Days
Chapt.8 cont'd.			
Lesson 8.5	Area of Composite Figures	7.9C	1.0
Focus	Solve a Simpler Problem	7.9C	0.5
Mid-Chapter Check	Quiz		0.5
Lesson 8.6	Volume of Prisms	7.9A	1.0
Hands-on Lab 7-a	Volume Relationships of Prisms and Pyramids	7.8A, 7.9A	1.0
Lesson 8.7	Volume of Pyramids	7.8B, 7.9A	1.0
Hands-on Lab 8-a	Nets of Rectangular Prisms	7.9D	0.5
Lesson 8.8	Surface Area of Rectangular Prisms	7.9D	1.0
Hands-on Lab 9-a	Nets of Triangular Prisms	7.9D	0.5
Lesson 8.9	Surface Area of Triangular Prisms	7.9D	1.0
Hands-on Lab 9-b	Relate Surface Area and Volume	7.9A, 7.9D	0.5
Lesson 8.10	Surface Area of Prisms	7.9D	1.0
Apply	Landscape Architect	7.9B	0.5
Review			1.0
Assess	Chapter 8 Assessment		1.0
Chapter 9	Statistics and Sampling		13 days (Mar 30-Apr 16)
Lesson 9.1	Bar Graphs and Dot Plots	7.6G	1.0
Hands-on Lab 2-a	Connect Bar Graphs to Circle Graphs	7.6G	0.5
Lesson 9.2	Circle Graphs	7.6G	1.0
Lesson 9.3	Make Predictions about a Population	7.6F, 7.6G	1.0
Lesson 9.4	Unbiased and Biased Samples	7.6F, 7.12B	1.0
Hands-on Lab 4-b	Multiple Samples of Data	7.6F, 7.12B	0.5
Focus	Use a Graph	7.6G	0.5
Mid-Chapter Check	Quiz		0.5
Lesson 9.5	Misleading Graphs and Statistics	7.6G	1.0
Hands-on Lab 6-a	Collect Data	7.12A, 7.12C	0.5
Lesson 9.6	Compare Populations	7.12A, 7.12C	1.0
Hands-on Lab 6-b	Visual Overlap of Data Distributions	7.12A, 7.12C	0.5
Lesson 9.7	Select an Appropriate Display	7.6G	1.0
Apply	Market Research Analyst	7.6F	1.0
Review			1.0
Assess	Chapter 9 Assessment		1.0
	NOTE: 7th Grade Writing STAAR Tuesday, April 7th		
Chapter 10	Personal Financial Literacy		13 days (Apr 19-May 5)
Lesson 10.1	Sales and Income Tax	7.13A	2.0
Lesson 10.2	Personal and Family Budgets	7.13B, 7.13D	2.0
Lesson 10.3	Assets and Liabilities	7.13C	2.0
Lesson 10.4	Simple and Compound Interest	7.13E	2.0
Lesson 10.5	Shopping: Monetary Incentives	7.13F	1.0
Review			1.0
Assess	Chapter 10 Assessment		1.0
	REVIEW: STAAR Prep and End-of-Year Assessment		3 Days (May 6-10)
	7th Grade Math STAAR		Tuesday, May 11th
	7th Grade Reading STAAR		Wednesday, May 12th
	7th Grade Writing STAAR		Tuesday, April 20th