THE PROGRAM AT A GLANCE

GRADE 7: SCOPE AND SEQUENCE

Packet	Packet Name	Multi-day Lessons	Content Standards
1	Probability	• Introduction to Probability • Flips, Rolls, and Sample Space Displays • Probability Experiments: Games & Puzzles	7.SP.5, 6, 7, 8
2	Percent and Scale	• Percent Increase and Decrease • Percent Applications • Scale	7.RP2, 3 7.NS.3; 7.G.1 7.EE.2, 3
3	Proportional Relationships	• An Introduction to Proportional Relationships • Digging Deeper into Proportional Relationships • Equations and Problems	7.RP.1, 2; 7.NS.3 7.EE.3; 7.G.1
4	Rational Number Addition and Subtraction	• Counters and Adding Integers • Counters and Subtracting Integers • Rational Number Addition and Subtraction	7.NS.1 7.SP.7, 8
5	Rational Number Multiplication and Division	• Multiplying and Dividing Integers • Multiplying and Dividing Rational Numbers • Order of Operations	7.NA.1, 2, 3 7.EE.3
6	Expressions	• Expression Investigations • Visual Patterns • Expressions with Cups and Counters • Fluency with Expressions	7.EE.1, 2, 3 7.RP.2, 3 7.NS.3
7	Equations and Inequalities	• Solving Equations Using Substitution • Solving Equations Using Algebra • Inequalities • Equations & Inequalities with Rational Numbers	7.EE. 1, 4 7.RP.2; 7.NS.3
8	Plane and Solid Figures	• Angles • Geometric Drawings • Cross Sections	7.G.2, 3, 5 7.EE.4
9	Length, Area, and Volume	• Circle Circumference • Circle Area • Area and Volume Applications	7.G.3, 4, 6 7.RP.2; 7.NS.3 7.EE.3; 7.SP.7
10	Sampling	• Introduction to Sampling • Comparing Samples • Fish in a Lake	7.SP.1, 2, 3, 4, 5, 7 7.RP.3

GRADE 7: BIG IDEAS AND CONNECTIONS
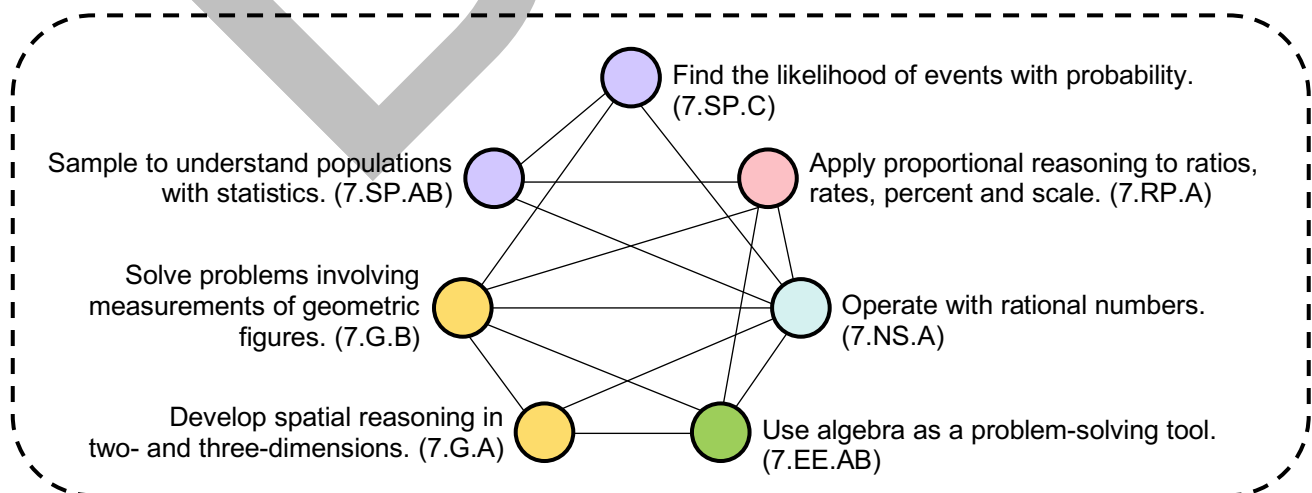
TOPIC ANALYSIS BY PACKET

Each MathLinks Student Packet emphasizes specific grade level content and includes distributed practice (spiral review) within its Review section. This chart shows how content topics unfold in the packet lessons and identifies distributed practice for those topics that is built in with Spiral Review. Standards that address major work of the grade are denoted with a star (*).

Short Topic Description	Topic first in Packet(s):	Topic also in Packet(s):	Spiral Review in Packet(s):	Content Standard(s)
Understand probability as a chance event	1	10	6	7.SP.5
Collect data from chance process and predict frequency	1		6	7.SP.6
Develop probability model, use it to find probabilities	1	4,10	6	7.SP.7ab
Find probabilities of compound events	1	4	6	7.SP.8ab
Convert rational numbers to decimals	1		2-10	7.NS.2d*
Represent proportional relationships by equations.	2	3,7	4,5	7.RP.2c*
Solve multistep ratio and percent problems	2	6,9,10	3,4,5,8	7.RP.3*
Solve problems using rational number operations.	2	3,5,6,7,9		7.NS.3*
Rewrite expressions to show how quantities are related.	2	6,9		7.EE.2*
Solve problems with rational numbers in different forms; use tools strategically; assess reasonableness	2	3,5,6,9,10	8,10	7.EE.3*
Solve problems involving scale drawings.	2	3	6	7.G.1
Compute unit rates w/ fractions	3		5,7,8	7.RP.1*
Recognize and represent proportional relationships	3	6.7.9		7.RP.2abd*
Add and subtract rational numbers	4	5	2,6,8,9,10	7.NS.1abcd*
Multiply and divide rational numbers	5		2,7,8,9,10	7.NS.2abc*
Operations with linear expressions	6	7	7,9	7.EE.1*
Solve problems with equations.	6	7,8	9.10	7.EE.4a*
Manipulate with linear expressions with rational coefficients	7		9	7.EE.1*
Solve problems with inequalities.	7		10	7.EE.4b*
Draw shapes, determine conditions for unique triangles	8		10	7.G.2
Slice 3-D figures; determine cross sections	8	9		7.G.3
Solve problems related to angles	8		10	7.G.5
Derive, use formulas for circumference and area of circle	9		10	7.G.4
Solve area, volume, surface area problems	9		10	7.G.6
Understand importance of random sample for valid statistics	10			7.SP.1
Use data from random sample(s) to draw inferences about a population	10			7.SP.2
Use displays or measures to compare two distributions	10			7.SP.3
Draw inferences about two populations using center and spread	10		8	7.SP.4

Complete correlations to the program are located in the Correlations Section of Program information.