## MathLinks 8 Curriculum Correlation

Strand/Outcome	Chapter/Section	Pages
Strand: Number	-	
<b>General Outcome</b>	Chapters 2–4	pp. 42–155
Develop number sense.	Chapter 6	pp. 194–241
	Chapter 8	pp. 282–323
Specific Outcomes		
<b>1.</b> Demonstrate an understanding of	Chapter 3: 3.1	pp. 80–87
perfect square and square root,	Wrap It Up!	p. 115
concretely, pictorially and	Math Games	p. 116
symbolically (limited to whole	Challenge in Real Life:	p. 117
numbers).	Building a Staircase	
[C, CN, R, V]	Chapters 1–4 Review	pp. 156–158
<b>2.</b> Determine the approximate square	Chapter 3: 3.3	pp. 95–100
root of numbers that are not perfect	Wrap It Up!	p. 115
squares (limited to whole numbers).	Chapters 1–4 Review	pp. 156–158
[C, CN, ME, R, T]		
<b>3.</b> Demonstrate an understanding of	Chapter 4: 4.1–4.4	pp. 122–149
percents greater than or equal to 0%.	Wrap It Up!	p. 153
[CN, PS, R, V]	Math Games	p. 154
	Challenge in Real Life: The	p. 155
	Buying and Selling Game	
	Chapters 1–4 Review	pp. 156–158
	Task: Test the Efficiency of a	p. 159
	Ramp	
<b>4.</b> Demonstrate an understanding of	Chapter 2: 2.1–2.2	pp. 46–62
ratio and rate.	Wrap It Up!	p. 73
[C, CN, V]	Math Games	p. 74
	Challenge in Real Life: Life of	p. 75
	a Bush Pilot	
	Chapters 1–4 Review	pp. 156–158
	Task: Test the Efficiency of a	p. 159
	Ramp	
	Task: Put Out a Forest Fire	p. 475
<b>5.</b> Solve problems that involve rates,	Chapter 2: 2.1–2.3	pp. 46–69
ratios and proportional reasoning.	Wrap It Up!	p. 73
[C, CN, PS, R]	Challenge in Real Life: Life of	p. 75
	a Bush Pilot	
	Chapters 1–4 Review	pp. 156–158
	Challenge in Real Life:	p. 441
	Treasure Hunt	
	Task: Put Out a Forest Fire	p. 475

Strand/Outcome	Chapter/Section	Pages
<b>6.</b> Demonstrate an understanding of	Chapter 6: 6.1–6.6	pp. 198–235
multiplying and dividing positive	Wrap It Up!	p. 239
fractions and mixed numbers,	Math Games	p. 240
concretely, pictorially and	Challenge in Real Life: Rock,	p. 241
symbolically.	Paper, Scissors	
[C, CN, ME, PS]	Task: Fraction Cubes	p. 327
	Challenge in Real Life:	p. 441
	Treasure Hunt	
	Chapters 5–8 Review	pp. 324–326
<b>7.</b> Demonstrate an understanding of	Chapter 8: 8.1–8.5	pp. 286–317
multiplication and division of	Wrap It Up!	p. 321
integers, concretely, pictorially and	Math Games	p. 322
symbolically.	Challenge in Real Life:	p. 323
[C, CN, PS, R, V]	Running a Small Business	
	Challenge in Real Life: The	p. 405
	Earth's Core	
	Chapters 5–8 Review	pp. 324–326
<b>Strand: Patterns and Relations (Patt</b>	erns)	_
General Outcome	Chapter 9	pp. 328–365
Use patterns to describe the world		
and solve problems.		
Specific Outcomes		_
1. Graph and analyze two-variable	Chapter 9: 9.1–9.3	pp. 332–359
linear relations.	Wrap It Up!	p. 363
[C, ME, PS, R, T, V]	Math Games	p. 364
	Challenge in Real Life:	p. 365
	Comparing Wages	
	Challenge in Real Life: The	p. 405
	Earth's Core	
	Chapters 9–12 Review	pp. 472–474

Strand/Outcome	Chapter/Section	Pages		
Strand: Patterns and Relations (Variables and Equations)				
<b>General Outcome</b>	Chapter 10	pp. 366–405		
Represent algebraic expressions in	_			
multiple ways.				
Specific Outcomes				
2. Model and solve problems using	Math Games	p. 364		
linear equations of the form:	Chapter 10: 10.1–10.4	pp. 370–399		
$\bullet$ $ax = b$	Wrap It Up!	p. 403		
• $\frac{x}{-} = b, a \neq 0$	Math Games	p. 404		
$a = b, a \neq 0$	Challenge in Real Life: The	p. 405		
$\bullet  ax + b = c$	Earth's Core			
• $\frac{x}{a} + b = c, a \neq 0$	Chapters 9–12 Review	pp. 472–474		
$a = -b - c, a \neq 0$				
$\bullet  a(x+b)=c$				
concretely, pictorially and				
symbolically, where $a$ , $b$ and $c$ are				
integers.				
[C, CN, PS, V]				
<b>Strand: Shape and Space (Measuren</b>		T		
General Outcome	Chapter 3	pp. 76–117		
Use direct or indirect measurement to	Chapter 5	pp. 160–193		
solve problems.	Chapter 7	pp. 242–281		
Specific Outcomes		T		
<b>1.</b> Develop and apply the Pythagorean	Chapter 3: 3.2, 3.4–3.5	pp. 88–94,		
theorem to solve problems.		101–111		
[CN, PS, R, T, V]	Wrap It Up!	p. 115		
	Challenge in Real Life:	p. 117		
	Building a Staircase	156 150		
	Chapters 1–4 Review	pp. 156–158		
	Task: Test the Efficiency of a	p. 159		
2 Draw and construct acts for 2 D	Ramp Chapter 5: 5 2 5 4	nn 170 197		
2. Draw and construct nets for 3-D	Chapter 5: 5.2–5.4	pp. 170–187		
objects.	Wrap It Up! Challenge in Peal Life: Design	p. 191		
[C, CN, PS, V]	Challenge in Real Life: Design a Bedroom	p. 193		
	Chapters 5–8 Review	pp. 324–326		
	Task: Fraction Cubes	p. 324–320 p. 327		
3. Determine the surface area of:	Chapter 5: 5.3–5.4	pp. 176–187		
• right rectangular prisms	Wrap It Up!	p. 170–167		
<ul> <li>right rectangular prisms</li> <li>right triangular prisms</li> </ul>	Math Games	p. 191 p. 192		
<ul><li>right triangular prisms</li><li>right cylinders</li></ul>	Challenge in Real Life: Design	p. 192 p. 193		
to solve problems.	a Bedroom	F. 170		
[C, CN, PS, R,V]	Chapters 5–8 Review	pp. 324–326		
	r	rr		

Strand/Outcome	Chapter/Section	Pages	
<b>4.</b> Develop and apply formulas for	Chapter 7: 7.1–7.4	pp. 246–275	
determining the volume of right	Wrap It Up!	p. 279	
prisms and right cylinders.	Math Games	p. 280	
[C, CN, PS, R, V]	Challenge in Real Life: Create	p. 281	
	a Storage Container	1	
	Chapters 5–8 Review	pp. 324–326	
Strand: Shape and Space (3-D Object			
General Outcome	Chapter 5	pp. 160–193	
Describe the characteristics of 3-D			
objects and 2-D shapes, and analyze			
the relationships among them.			
Specific Outcomes	1	<u> </u>	
<b>5.</b> Draw and interpret top, front and	Chapter 5: 5.1	pp. 164–169	
side views of 3-D objects composed	Wrap It Up!	p. 191	
of right rectangular prisms.	Challenge in Real Life: Design	p. 193	
[C, CN, R, T, V]	a Bedroom		
	Challenge in Real Life: Create	p. 281	
	a Storage Container	1	
	Chapters 5–8 Review	pp. 324–326	
Strand: Shape and Space (Transform			
General Outcome	Chapter 12	pp. 442–471	
Describe and analyze position and			
motion of objects and shapes.			
Specific Outcomes			
<b>6.</b> Demonstrate an understanding of	Chapter 12: 12.1–12.4	pp. 446–465	
tessellation by:	Wrap It Up!	p. 469	
<ul> <li>explaining the properties of</li> </ul>	Math Games	p. 470	
shapes that make tessellating	Challenge in Real Life: Border	p. 471	
possible	Design		
• creating tessellations	Chapters 9–12 Review	pp. 472–474	
• identifying tessellations in the	Task: Put Out a Forest Fire	p. 475	
environment.			
[C, CN, PS, T, V]			
Strand: Statistics and Probability (Data Analysis)			
General Outcome	Chapter 1	pp. 2–41	
Collect, display and analyze data to	1		
solve problems.			
Specific Outcomes	1	<u> </u>	
1. Critique ways in which data is	Chapter 1: 1.1–1.3	pp. 6–35	
presented.	Wrap It Up!	p. 39	
$\begin{bmatrix} C, R, T, V \end{bmatrix}$	Math Games	p. 40	
· · · -	Challenge in Real Life: Keep	p. 41	
	Your Community Green	_	
	Chapters 1–4 Review	pp. 156–158	
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Strand/Outcome	Chapter/Section	Pages	
Strand: Statistics and Probability (Chance and Uncertainty)			
<b>General Outcome</b>	Chapter 11	pp. 406–441	
Use experimental or theoretical			
probabilities to represent and solve			
problems involving uncertainty.			
Specific Outcomes			
<b>2.</b> Solve problems involving the	Chapter 11: 11.1–11.3	pp. 410–435	
probability of independent events.	Wrap It Up!	p. 438	
[C, CN, PS, T]	Math Games	p. 440	
	Challenge in Real Life:	p. 441	
	Treasure Hunt		
	Chapters 9–12 Review	pp. 472–474	
	Task: Put Out a Forest Fire	p. 475	