

## ***MathLinks 7 Manipulatives, Materials, and Technology Tools***

\* indicates optional

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### ***Items That May Need To Be Purchased***

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Available from McGraw-Hill Ryerson</b>	<b>ISBN</b>	<b>Suggested Quantity</b>
Algebra tiles	11.1, 11.3, 11.4, Ch 11 Games			1 class set
Base 10 blocks	2.1*, 2.2, 2.3	Base Ten Materials Understanding Place Value Small Group Kit (20 cubes, 20 rods, 4 flats)	0-322-055628	1 class set
Beads	Ch 1 Wrap It Up!*			30 beads per student
Compasses	3.2, 3.3, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Challenge* Ch 1–4 Review 5.5 Ch 8 Opener, 8.1, 8.3, 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Games, Ch 8 Challenge, Ch 5–8 Review, Ch 8 Task	Student SAFE-T Compass durable, plastic, draws circles from $\frac{1}{4}$ -inch to 10" diameter in $\frac{1}{8}$ -inch increments	20064	1 per student

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Available from McGraw-Hill Ryerson</b>	<b>ISBN</b>	<b>Suggested Quantity</b>
Counters/coloured tiles/coins	Ch 5 Wrap It Up! 6.1 10.1–10.4, Ch 10 Review 11.1, 11.3, 11.4, Ch 11 Review, Ch 11 Games Ch 12 Task*	Colour Tiles 1" square plastic tiles;  Overhead Colour Tiles Two-colour Counters	bucket of 280 002-686504-1; bucket of 400 33207	15 per group of 2–3 students
Integer chips	5.4, Ch 5 Games 9.1–9.4, 9.5*, Ch 9 Review, Ch 9 Practice Test			10 of each colour per group of 2–3 students
Linking cubes	12.2	Centicubes (interlocking)	set of 100 0-322-055490; set of 500 0-322-0551-2; set of 1000 0-322-05552-0	35 per group of 2–3 students
Marbles/coloured counters	5.1*			10–15 per group of 2–3 students
Miras/mirrors	1.3* 3.1*, 3.3*		Plastic mirror 1561075248 Bucket of 24 0762202645	1 per group of 2–3 students
Pattern blocks	6.2, 6.3, Ch 6 Review, Ch 6 Practice Test 7.2, 7.3	Pattern Blocks; 1 cm thick	bucket of 250 plastic blocks 0-322-05566-0; bucket of 250 wooden 0-322-05567-9	1 set per group of 2–3 students

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Available from McGraw-Hill Ryerson</b>	<b>ISBN</b>	<b>Suggested Quantity</b>
Protractors	3.1–3.3, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Challenge 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Games, Ch 5–8 Review	Protractor open centre; raised graduations measure up to 180 degree angles and 6" lines	set of 10 0-322-06816-9	1 per student
Rulers	Ch 1 Opener, 1.1–1.4, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up! Ch 2 Opener Ch 3 Opener, 3.1–3.5, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Games, Ch 3 Challenge 4.1, Ch 1–4 Review, Ch 4 Task 5.1–5.5, Ch 5 Review, Ch 5 Practice Test Ch 6 Opener, 6.1–6.3, Ch 6 Practice Test, Ch 6 Wrap It Up!, Ch 6 Challenge Ch 7 Opener, Ch 7 Challenge 8.1–8.3, 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Challenge, Ch 5–8 Review, Ch 8 Task Ch 9 Challenge Ch 10 Opener, 10.1, 10.4, Ch 10 Practice Test, Ch 10 Challenge Ch 12 Opener, 12.1, 12.3, 12.4, Ch 12 Task*	Ruler 30 cm; clear; plastic; measures in centimetres and inches	0-322-07126-7	1 per student

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Available from McGraw-Hill Ryerson</b>	<b>ISBN</b>	<b>Suggested Quantity</b>
Unit cubes/blocks	Ch 10 Review 11.4	Number Cubes six-sided; wooden cubes	set of 12 1-56107-704-6	38–40 per group of 2–3 students

**Items That Can Be Made Using Resources and Directions in the Teacher’s Resource**

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Available in MathLinks 7 TR</b>	<b>Suggested Quantity</b>
0.5 grid paper	Ch 1 Opener, 1.1–1.4, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Challenge Ch 6 Opener, 6.1 Ch 8 Opener Ch 10 Opener, 10.4, Ch 10 Practice Test	See Generic Masters; Master 9 0.5 Centimetre Grid Paper	
Centimetre grid paper	8.3	See Generic Masters; Master 8 Centimetre Grid Paper	
Circle template	Ch 8 Task*		1 per 2–3 students
Fraction strips	6.2, 6.3, Ch 6 Review, Ch 6 Practice Test, Ch 6 Challenge*	See Generic Masters; Master 15 Fraction Strips	1 set per student
Loading-strip models	4.2, 4.3, Ch 4 Review, Ch 4 Practice Test Ch 5 Review		1 per student
Number lines	Ch 4 Review	See Generic Masters; Master 3 Integer Number Lines and Master 4 Vertical and Horizontal Number Lines	
Place value charts	4.2		
Transparent chips	9.1*, 9.3*, 9.4*		10 each of red and blue
Transparent counters	11.1*		at least 15
Transparent plastic strips	9.2*		1 overhead transparency cut into strips

### **Items That Students Own**

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
Calculators	Ch 2 Opener, 2.2–2.4, Ch 2 Review, Ch 2 Practice Test, Ch 2 Wrap It Up!, Ch 2 Challenge* 4.2, 4.3, Ch 4 Review, Ch 4 Practice Test, Ch 1–4 Review, Ch 4 Task* Ch 5 Review 6.1* 7.4*, Ch 7 Practice Test* 8.2, 8.3, 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Wrap It Up! 10.1 Ch 11 Practice Test, Ch 11 Challenge Ch 12 Challenge*, Ch 12 Task*	1 per student
Coloured pencils/ markers	1.2, 1.3, Ch 1 Wrap It Up!, Ch 1 Games*, Ch 1 Challenge Ch 2 Games* 4.1, Ch 4 Challenge, Ch 4 Task* 5.5 6.1–6.3, Ch 6 Review, Ch 6 Practice Test, Ch 6 Wrap It Up!, Ch 6 Challenge Ch 7 Opener, 7.1–7.4, Ch 7 Review, Ch 7 Practice Test, Ch 7 Wrap It Up!, Ch 7 Games, Ch 7 Challenge 8.5, Ch 8 Games, Ch 8 Challenge 9.1, 9.2, 9.3* Ch 10 Challenge	1 set per student
Compasses	3.2, 3.3, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Challenge* Ch 1–4 Review 5.5 Ch 8 Opener, 8.1, 8.3, 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Games, Ch 8 Challenge, Ch 5–8 Review, Ch 8 Task	1 per student
Protractors	3.1–3.3, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Challenge 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Games, Ch 5–8 Review	1 per student
Right triangles	3.1*, 3.2, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Challenge*	1 per student

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
Rulers	Ch 1 Opener, 1.1–1.4, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up! Ch 2 Opener Ch 3 Opener, 3.1–3.5, Ch 3 Review, Ch 3 Practice Test, Ch 3 Wrap It Up!, Ch 3 Games, Ch 3 Challenge 4.1, Ch 1–4 Review, Ch 4 Task 5.1–5.5, Ch 5 Review, Ch 5 Practice Test Ch 6 Opener, 6.1–6.3, Ch 6 Practice Test, Ch 6 Wrap It Up!, Ch 6 Challenge Ch 7 Opener, Ch 7 Challenge 8.1–8.3, 8.5, Ch 8 Review, Ch 8 Practice Test, Ch 8 Challenge, Ch 5–8 Review, Ch 8 Task Ch 9 Challenge Ch 10 Opener, 10.1, 10.4, Ch 10 Practice Test, Ch 10 Challenge Ch 12 Opener, 12.1, 12.3, 12.4, Ch 12 Task*	1 per student

**Items That May Be in the Classroom or in Another Location in the School**

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
2-pan balance with masses	11.1*, 11.2, 11.4	at least 1
Atlas	Ch 2 Opener*	1
Calendar	2.2* Ch 10 Opener, 10.2, 10.3	1
Circular objects	8.2	10 per group of 4 students
Clock/stopwatch	Ch 10 Challenge	1 per group of 2–3 students
Coins/play coins	Ch 1 Games Ch 2 Games Ch 4 Opener 5.2*, Ch 5 Wrap It Up! 11.2	
Computers with Internet access	1.1–1.4* Ch 2 Opener* Ch 8 Wrap It Up!* Ch 9 Wrap It Up! 12.3*, Ch 12 Wrap It Up!	access per student
Drawing software	Ch 7 Challenge*	access per student
Encyclopedia	Ch 12 Wrap It Up!	1 class set
Glue	Ch 1 Opener, 1.1 Ch 6 Opener Ch 7 Challenge	1 per group of 2–3 students
Marbles/coloured counters	5.1*	10–15 per group of 2–3 students
Medallions and rosettes	Ch 8 Challenge	several samples
Metre sticks	8.2	1 per group of 4 students
11 × 17 paper	Ch 1 Opener, 1.1 Ch 7 Challenge	
Construction paper/coloured paper	Ch 6 Challenge Ch 7 Games 9.2	



<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
Paper/notebook paper	Ch 2 Opener Ch 3 Opener, 3.1 Ch 4 Opener, Ch 4 Challenge* Ch 5 Opener Ch 7 Opener Ch 8 Task Ch 9 Opener Ch 11 Opener Ch 12 Opener	
Poster paper/ cardboard/ index cards	4.1* Ch 5 Wrap It Up! Ch 6 Challenge Ch 7 Wrap It Up! Ch 8 Games Ch 12 Wrap It Up!*	
Tracing paper	1.3, Ch 1 Review*, Ch 1 Practice Test*, Ch 1 Wrap It Up!*, 3.2, 3.3, Ch 3 Games	
Paper clips	5.5 Ch 6 Games Ch 7 Games Ch 8 Games Ch 12 Games	
Poster paints	Ch 4 Task* Ch 6 Task*	
PowerPoint® software	Ch 6 Challenge*	access per student
Push pins	8.1, Ch 8 Task*	1 per group of 2–3 students
Ribbon/paper strips	4.1	1 piece (25-cm length × 1 cm width) per student

<b>Manipulatives /Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
Scissors	Ch 1 Opener, 1.1, 1.3, Ch 1 Review*, Ch 1 Practice Test*, Ch 1 Wrap It Up!*, Ch 1 Challenge Ch 2 Opener 3.4, 3.5 Ch 4 Opener, 4.1 Ch 5 Opener 6.2 Ch 7 Opener, Ch 7 Wrap It Up!, Ch 7 Challenge Ch 8 Opener, 8.3, Ch 8 Games Ch 9 Opener, 9.1*, 9.2*, 9.5 Ch 10 Opener, 10.1 Ch 11 Opener Ch 12 Opener	1 per group of 2–3 students
Spreadsheet software	Ch 7 Challenge* 8.5, Ch 8 Review	access per student
Stapler	Ch 1 Opener, Ch 1 Challenge Ch 3 Opener Ch 4 Opener Ch 5 Opener Ch 6 Opener, 6.1 Ch 7 Opener Ch 8 Opener Ch 9 Opener Ch 10 Opener Ch 11 Opener Ch 12 Opener	1 or 2
Stir sticks/ toothpicks	10.2–10.4	15 per student
String	Ch 1 Wrap It Up!*, 8.1, 8.2, Ch 8 Task*	
Sudoku puzzles	2.2*	2–5 samples
Tape measures	12.3	several
Tape/masking tape	3.4 4.1, Ch 4 Challenge* Ch 7 Challenge	1–2 rolls
Video equipment	Ch 6 Challenge*	

### ***Items That May Be Obtained From Home***

<b>Manipulatives/ Materials</b>	<b>Used in Chapter/Section</b>	<b>Suggested Quantity</b>
Cups/plastic containers	10.3, Ch 10 Review 11.1–11.4, Ch 11 Review, Ch 11 Games Ch 12 Task*	5 per group of 2–3 students
Boxes, wrapping paper, and ribbon	Ch 11 Challenge	
Dice	5.4, Ch 5 Wrap It Up! Ch 6 Games Ch 7 Games Ch 12 Games	1 pair per student pair
Flyer/catalogues	Ch 11 Challenge*	3–4 flyers
Game playing pieces	Ch 7 Wrap It Up!	
Games that use dice	Ch 5 Opener*	2–3 games
Magazines/newspapers	1.3 Ch 4 Opener* Ch 7 Challenge 8.4 Ch 12 Challenge*	2–3 per group of 2–3 students
Paper bags	5.1, Ch 5 Games	1 per pair of students
Phone book	Ch 11 Challenge*	1
Trip planning resources (maps, menus, activity guides, transportation flyers)	Ch 2 Wrap It Up!	1 set per 2–3 students