

MathLinks 8 Manipulatives, Materials, and Technology Tools

* indicates optional

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Items That May Need To Be Purchased

Manipulatives /Materials	Used in Chapter/Section	Available From McGraw-Hill Ryerson	ISBN	Suggested Quantity
Algebra tiles	10.1, 10.2, 10.3, 10.4, Ch 10 Review, Ch 10 Practice Test, Ch 10 Math Games, Ch 9-12 Review			1 class set
Base ten blocks	4.1*, 4.4*	Base Ten Materials Understanding Place Value Small Group Kit (20 cubes, 20 rods, 4 flats)	0-322-055628	1 class set
Centimetre cubes	7.1, 7.2*, 7.4, Ch 7 Review*, Ch 5–8 Review	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
Compasses	Ch 1 Opener, 1.1, 1.2*, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!*, Ch 1 Challenge*, Ch 2 Challenge, Ch 1–4 Review	Student SAFE-T Compass durable, plastic	20064	1 per student

Manipulatives /Materials	Used in Chapter/Section	Available From McGraw-Hill Ryerson	ISBN	Suggested Quantity
Counters/coloured tiles/coins	2.1*, Ch 3 Opener, 3.1, Ch 8 Math Games, 9.1, 9.2, Ch 10 Review, Ch 10 Practice Test, Ch 10 Math Games, 11.2, 11.3*, Ch 12 Wrap It Up!, Ch 12 Math Games	Colour Tiles 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	Ch 8 Opener*, 8.1, 8.2, 8.3, 8.4, Ch 8 Review, Ch 8 Practice Test, Ch 8 Wrap It Up!, Ch 8 Math Games*, Ch 8 Challenge, Ch 5–8 Review, 10.1, 10.2, 10.3, 10.4			10 of each colour per group of 2–3 students
Models of prisms and cylinders and other 3D objects	5.2, 5.4, Ch 5 Practice Test, 7.1, 7.2. 7.3, Ch 5–8 Review			1 per group of 2–3 students
Pattern blocks	6.1, 6.2, Ch 6 Review*, Ch 5–8 Review, 12.1, 12.2, 12.3*, 12.4*, Ch 12 Review*, Ch 12 Practice Test*, Ch 9–12 Review	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

Manipulatives /Materials	Used in Chapter/Section	Available From McGraw-Hill Ryerson	ISBN	Suggested Quantity
Protractors	Ch 1 Opener, 1.1, 1.2*, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!*, Ch 1 Challenge*, 3.2, Ch 3 Wrap It Up!, Ch 1–4 Review, 12.1, 12.2, 12.3, 12.4, Ch 12 Practice Test	Protractor open centre	set of 10 0-322-06816-9	1 per student
Rulers	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Challenge, Ch 2 Opener, 2.1, 2.2, 2.3, Ch 2 Practice Test, Ch 2 Challenge, Ch 3 Opener, 3.1, 3.2, 3.3, 3.4, Ch 3 Wrap It Up!, Ch 3 Challenge, Ch 4 Opener, Ch 4 Review, Ch 4 Practice Test, Ch 1–4 Review, Ch 5 Opener, 5.3, 5.4, Chapter 5 Review, Ch 5 Practice Test, Ch 5 Wrap It Up!, 6.1, 6.2, 6.3, 6.4, 6.5, Ch 6 Challenge, Ch 7 Opener, 7.1, 7.3, 7.4, Ch 7 Review, Ch 7 Practice Test, Ch 7 Wrap	Ruler 30 cm, clear, plastic	0-322-07126-7	1 per student

	<p>It Up!, Ch 7 Challenge, Ch 8 Challenge, Ch 5– 8 Review, Ch 8 Task, Ch 9 Opener, 9.2, 9.3, Ch 9 Review, Ch 9 Practice Test, Ch 9 Wrap It Up!, Ch 9 Challenge, Ch 10 Opener, 11.1, 11.2, 11.3, Ch 11 Review, Ch 11 Practice Test, Ch 11 Math Games, Ch 11 Challenge, Ch 12 Opener, 12.1, 12.2, 12.3, 12.4, Ch 12 Review, Ch 12 Practice Test, Ch 12 Wrap It Up!, Ch 12 Math Games, Ch 12 Challenge, Ch 9–12 Review, Ch 12 Task</p>			
Unit cubes/blocks	5.1, 5.2, 10.2	Number Cubes six-sided, wooden	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

Manipulatives /Materials	Used in Chapter/Section	Available in MathLinks 8 TR	Suggested Quantity
0.5 grid paper	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Math Games, Ch 1 Math Games, Ch 1 Challenge, Ch 3 Opener, 3.1, 3.4, Ch 3 Wrap It Up!, Ch 3 Challenge, Ch 5 Opener, Ch 9 Opener, 9.2, 9.3, Ch 9 Review, Ch 9 Practice Test, Ch 9 Wrap It Up!, Ch 9 Challenge, Ch 10 Challenge, Ch 12 Opener, 12.1, 12.2, 12.3, 12.4, Ch 12 Review, Ch 12 Practice Test, Ch 9–12 Review	See Generic Masters; Master 9 0.5 Centimetre Grid Paper	1 per student per activity
Algebra tiles	10.1, 10.2, 10.3, 10.4, Ch 10 Review, Ch 10 Practice Test, Ch 10 Math Games, Ch 9–12 Review	Master 15 Algebra Tiles	1 class set
Centimetre grid paper	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Math Games, Ch 1 Math Games, Ch 1 Challenge, 2.1, Ch 2 Wrap It Up!*, 3.2, 3.3, 3.4, Ch 3 Wrap It Up!, Ch 3 Challenge, Ch 1–4 Review, 5.2, 5.4, Chapter 5 Review, Ch 5 Practice Test, Ch 5 Wrap It Up!, Ch 5 Challenge, 6.4*, 7.1*, 7.2*, 7.3, 7.4, Ch 5–8 Review, Ch 8 Task, Ch 9 Opener, 9.2, 10.1, Ch 10 Challenge, Ch 11 Challenge, Ch 9–12 Review	See Generic Masters; Master 8 Centimetre Grid Paper	1 per student per activity

Manipulatives /Materials	Used in Chapter/Section	Available in MathLinks 8 TR	Suggested Quantity
Fraction strips	6.1*, 6.2*, 6.3*, 6.4*, 6.5*, Ch 5–8 Review	See Generic Masters; Master 14 Fraction Strips	1 set per student
Integer number lines	8.2*	See Generic Masters; Master 3 Integer Number Lines	1 per student
Hundred chart	Ch 8 Math Games	See Generic Masters; Master 11 Hundred Chart	1 per group of 2–3 students
Hundreds grid	Ch 4 Opener, 4.1, 4.2, 4.3, 4.4*, Ch 4 Review, Ch 4 Practice Test, Ch 1–4 Review	See Generic Masters; Master 10 Hundreds Grid	1–3 per student per activity
Isometric dot paper	5.1, 7.2*, Ch 5–8 Review, 12.1*, 12.3*, 12.4*	See Generic Masters; Master 7 Isometric Dot Paper	1 per student
Number lines	6.2*, Ch 8 Opener*, 8.4*	See Generic Masters; Master 4 Vertical and Horizontal Number Lines	1 per student per activity
Pattern block shapes	6.1, 6.2, Chapter 6 Review, Ch 5–8 Review, 12.1, 12.2, 12.3*	Master 13 Pattern Blocks	1 per student per activity
Percent circles	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Challenge	See Generic Masters; Master 12 Percent Circles	1 per student per activity
Silly Putty®	10.1	For a recipe, go to www.mathlinks8.ca and follow the links.	1 per group of 2–3 students
Spinner	Ch 6 Math Games, 11.2*, 11.3*	BLM 6–23 Spinner	1 per group of 2–3 students
Square dot paper	7.2*	See Generic Masters; Master 6 Square Dot Paper	1 per student
Tangram pieces	3.2*	See Generic Masters; Master 5 Tangram	1 set per group of 2–3 students
Transparent chips	8.1*, 8.3*	See Generic Masters; Master 20 Integer Chips	10 each of red and blue
Transparent plastic strips	6.1*, 6.2*, 6.3*, 6.4*, 6.5*, 7.4*, 8.2*, 8.4*	BLM 6-8 Rectangles	1 overhead transparency cut into strips

Manipulatives /Materials	Used in Chapter/Section	Available in <i>MathLinks 8 TR</i>	Suggested Quantity
Transparent shapes	6.1*, 6.2*, Ch 12 Opener*, 12.1, 12.2*, 12.3*	BLM 12-6 Irregular Polygons, BLM 12-9 Design Template	1 per student per activity

Items That Students Own

Manipulatives /Materials	Used in Chapter/Section	Suggested Quantity
Calculators	2.2*, Ch 1 Review*, Ch 1 Practice Test*, Ch 1 Wrap It Up!*, Ch 1 Challenge*, 2.1*, Ch 2 Math Games, Ch 2 Challenge, 4.2*, 4.3, 4.4, Ch 4 Review, Ch 4 Practice Test, Ch 4 Wrap It Up!, Ch 4 Math Games*, Ch 4 Challenge, Ch 1–4 Review, Ch 1–4 Task, Ch 5 Math Games, 7.1*, 7.2*, 7.3, 7.4, Ch 7 Review, Ch 7 Practice Test, Ch 7 Wrap It Up!, Ch 7 Math Games, 8.2*, 8.4*, 8.5*, Ch 5-8 Review, 11.1, 11.3*	1 per student
Coloured pencils/markers/crayons	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Challenge, 2.1, Ch 2 Wrap It Up!, Ch 3 Wrap It Up!, 4.1, Ch 4 Review, Ch 4 Practice Test, Ch 4 Challenge, Ch 1–4 Review, Ch 5 Wrap It Up!, 6.1*, 6.2*, 6.3, 6.4*, 6.5*, 8.1*, 8.2, 8.3*, 8.4, 10.2, 11.1, 11.2, 11.3, Ch 11 Wrap It Up!, Ch 11 Challenge, Ch 12 Opener, 12.3, 12.4, Ch 12 Challenge, Ch 12 Task	1 set per student
Compasses	Ch 1 Opener, 1.1, 1.2*, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!*, Ch 1 Challenge*, Ch 2 Challenge, Ch 1–4 Review, 11.1*	1 per student
Protractors	Ch 1 Opener, 1.1, 1.2*, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!*, Ch 1 Challenge*, 3.2, Ch 3 Wrap It Up!, Ch 1–4 Review, 12.1, 12.2, 12.3, 12.4, Ch 12 Practice Test	1 per student

Manipulatives /Materials	Used in Chapter/Section	Suggested Quantity
Rulers	Ch 1 Opener, 1.1, 1.2, 1.3, Ch 1 Review, Ch 1 Practice Test, Ch 1 Wrap It Up!, Ch 1 Challenge, Ch 2 Opener, 2.1, 2.2, 2.3, Ch 2 Practice Test, Ch 2 Wrap It Up!, Ch 2 Challenge, Ch 3 Opener, 3.1, 3.2, 3.3, 3.4, Ch 3 Wrap It Up!, Ch 3 Challenge, Ch 4 Opener, Ch 4 Review, Ch 4 Practice Test, Ch 1–4 Review, Ch 5 Opener, 5.3, 5.4, Chapter 5 Review, Ch 5 Practice Test, Ch 5 Wrap It Up!, 6.1, 6.2, 6.3, 6.4, 6.5, Ch 6 Challenge, Ch 7 Opener, 7.1, 7.3, 7.4, Ch 7 Review, Ch 7 Practice Test, Ch 7 Wrap It Up!, Ch 7 Challenge, Ch 8 Challenge, Ch 5–8 Review, Ch 8 Task, Ch 9 Opener, 9.2, 9.3, Ch 9 Review, Ch 9 Practice Test, Ch 9 Wrap It Up!, Ch 9 Challenge, Ch 10 Opener, 11.1, 11.2, 11.3, Ch 11 Review, Ch 11 Practice Test, Ch 11 Math Games, Ch 11 Challenge, Ch 12 Opener, 12.1, 12.2, 12.3, 12.4, Ch 12 Review, Ch 12 Practice Test, Ch 12 Wrap It Up!, Ch 12 Math Games, Ch 12 Challenge, Ch 9–12 Review, Ch 12 Task	1 per student

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

Manipulatives /Materials	Used in Chapter/Section	Suggested Quantity
Art that shows transformations and tessellations	Ch 12 Opener*	3-4
Book with short stories	2.3	1 per group of 2-3 students
Camera attached to a television monitor	4.1*	1
Chalk	1.1	1 per group of 3-4 students
Circular objects or pieces of cardboard	9.1, 11.1*	10 per group of 4 students
Stopwatch	2.3	1 per group of 2-3 students
Coins/play coins	7.3*, 9.2, 11.2*, 11.3*, Ch 11 Math Games	1-10 per group of 2-3 students
Computers with Internet access	1.1*, 1.2*, Ch 1 Challenge, 2.3, Ch 2 Wrap It Up!	access per student
Drawing software	Ch 9 Challenge*	access per student
Dry erase markers	6.1*, 6.2*, 6.3*, 6.4*, 6.5*	2-3 colours per group of 2-3 students
Glue/glue stick	1.1*, 1.2*, Ch 3 Wrap It Up!, Ch 4 Opener, Ch 5 Opener, Ch 5 Wrap It Up!, Ch 8 Task, Ch 12 Opener*, 12.2, 12.3, 12.4, Ch 12 Wrap It Up!, Ch 12 Challenge	1 per group of 2-3 students
Graphing calculator	Ch 9 Challenge*	1
Marbles/coloured counters	9.1, 9.2, 11.2*, 11.3*	10-15 per group of 2-3 students

Manipulatives /Materials	Used in Chapter/Section	Suggested Quantity
Metre sticks	1.1, Ch 1–4 Task, 9.3, 10.1	1 per group of 2–3 students
Modelling clay	7.4*, Ch 12 Task	3 small pieces per group of 2–3 students
11 × 17 paper	Ch 1 Opener, Ch 2 Opener, Ch 5 Opener, Ch 7 Opener, Ch 8 Opener, Ch 9 Opener, Ch 10 Opener, Ch 11 Opener, Ch 12 Opener	1–2 per student per activity
Construction paper/coloured paper	7.3*, 8.2*, 8.4*, Ch 12 Opener, 12.2, 12.3, 12.4, Ch 12 Wrap It Up!, Ch 12 Challenge	1 per student per activity
Craft sticks/tongue depressors	11.1, 11.2, 11.3, Ch 11 Wrap It Up!	4 per group of 2 students
Index cards	Ch 1 Opener, Ch 7 Opener	3–8 per student
Poster paper/cardboard/board	Ch 3 Wrap It Up!, Ch 4 Challenge, Ch 1–4 Task, Ch 12 Opener, 12.1, 12.2, 12.3, 12.4	1–2 pieces per student per activity
Paper clips, standard size	2.2, Ch 6 Math Games, Ch 9 Math Games, 11.1*	1 box per group of 2–3 students
Paper clips, jumbo size	2.2	1 box per group of 2–3 students
Poster paints	Ch 12 Wrap It Up!	1 class set
Scissors	Ch 1 Opener*, 1.1*, 1.2*, Ch 3 Opener, 3.2, Ch 3 Wrap It Up!, Ch 4 Opener, Ch 4 Math Games, Ch 5 Opener, 5.2, 5.3, Chapter 5 Review, Ch 5 Challenge, Ch 6 Opener, Ch 7 Opener*, Ch 8 Opener, 8.1*, 8.2*, 8.3*, 8.4*, Ch 8 Task, Ch 9 Opener, Ch 10 Opener, Ch 11 Opener, Ch 12 Opener, 12.1, 12.2, 12.3, 12.4, Ch 12 Wrap It Up!, Ch 12 Challenge	1 per student
Spreadsheet software	1.2*, Ch 1 Review*, Ch 1 Practice Test*, Ch 1–4 Review, 11.1*, 11.3*,	access per student
Spring scale with masses	10.1	1
Stapler	Ch 1 Opener, Ch 3 Opener, Ch 4 Opener, Ch 5 Opener, Ch 6 Opener, Ch 7 Opener, Ch 8 Opener, Ch 9 Opener, Ch 10 Opener, Ch 11 Opener, Ch 12 Opener	1–2

Manipulatives /Materials	Used in Chapter/Section	Suggested Quantity
Sticky notes	2.3	1 per student
Tape measures	Ch 1–4 Task, 7.4*	1 per group of 3–4 students
Tape/masking tape	1.1*, 1.2*, 3.2, Ch 4 Opener, Ch 5 Opener, 5.1, 5.2, Ch 5 Wrap It Up!, 7.3*, 9.3, 12.2, 12.3, 12.4	1–2 rolls
Toothpicks	9.2	20 per student
Tracing paper	12.1*, 12.3, 12.4*	1 per student
Transparencies (coloured)	Ch 12 Wrap It Up!	3–4 colours per student

Items That May Be Obtained From Home

Manipulatives/ Materials	Used in Chapter/Section	Suggested Quantity
Bingo chips	Ch 9–12 Task	3 per group of 3 students
Cans	5.2, Ch 5 Wrap It Up!, 7.3, Ch 7 Practice Test	1 per group of 2–3 students
Cardboard boxes/cereal boxes	5.1, 5.2, 5.3, Ch 5 Wrap It Up!, Ch 7 Practice Test, Ch 7 Challenge*	1 per group of 2–students
Cups	Ch 10 Review, Ch 10 Practice Test, Ch 10 Math Games	5 per group of 2–3 students
Dice	Ch 1 Math Games, Ch 2 Math Games, Ch 3 Math Games, Ch 8 Math Games, 11.2*, 11.3*, Ch 11 Math Games, Ch 12 Math Games	2–3 dice per group of 2–3 students
Dice, four-sided	11.1*, 11.2*, 11.3*	1 pair per group of 2 students
Food and drink labels	4.1	2–3
Flyer/catalogues	2.2, 4.4	3–4
Game playing pieces	Ch 3 Wrap It Up!	1–2 per student
Glow stick	5.4*	1 per group of 2–3 students
Magazines/newspapers	1.1, 1.2, Ch 5 Challenge, 7.4*	2–3 per group of 2–3 students
Measuring cups	7.3	1 per pair of students
Paper bags	11.2*, 11.3*	1 per pair of students
Pictures of fruit or other food item	4.1*	3–4 per class
Playing cards	Ch 5 Math Games, Ch 7 Math Games, 11.2*, 11.3*	1 deck per pair or small group
Recipes	2.3, Ch 2 Wrap It Up!	1 per student
Toy vehicles, such as Hot Wheels®	Ch 1–4 Task	1 per group of 2–3 students
Tubes such as from paper towel rolls	9.3	1 per group of 2–3 students