



Index of Mathematics and numeracy
digital curriculum resources


Introduction

This document is an index of **Mathematics and numeracy** digital curriculum resources made available by The Learning Federation (TLF) to all schools in Australia and New Zealand.

The Mathematics and numeracy digital curriculum resources, which has been created or licensed by TLF, supports and enhances students' understanding of key Mathematics concepts in a range of contexts for the P–12 years.

In this index, the curriculum content is grouped into the following Mathematics strands:

- Algebra
- Chance
- Data
- Measurement
- Number
- Space.

The **learning objects** are grouped in year levels. TLF-created learning objects are generally published in series and some learning objects within a series are aggregated into single learning objects. Aggregated learning objects are identified with the  symbol.

Catalogues

Catalogues for each of the Mathematics and numeracy strands are available to download from TLF's website: www.thelearningfederation.edu.au.



These catalogues provide detailed descriptions of interactive learning and assessment objects, as well as many samples of digitised items licensed from TLF's partner institutions.



Accessing and viewing the content



Government and non-government education authorities in each Australian state and territory and in New Zealand have responsibility for facilitating access to the pool of digital content. Full details about how to access the content, including the necessary technical and software requirements for viewing it, can be found on TLF's website.

www.thelearningfederation.edu.au





Algebra

Years	Learning object	TLF ID
	Monster choir series (Years P–3)	
2–3	Monster choir: look and listen	L494
0–1	Monster choir: making patterns	L1056
P–2	Monster choir: missing monsters	L1057
	Musical number patterns series (Years 1–6)	
2–3	Musical number patterns: music maker	L589
1–2	Musical number patterns: musical counter	L1063
3–4	Musical number patterns: musical times	L1065
3–4	Musical number patterns: odds and evens	L1064
5–6	Musical number patterns: the challenge	L1067
	Musical number patterns: assessment series (Years 3–6)	
3–4	Musical number patterns: counting rules: assessment	L9834
5–6	Musical number patterns: problem-solving: assessment	L9835
	Balance the cups series (Years 2–4)	
2–4	 Balance the cups	L5974
2–3	Balance the cups: use the rule 1	L5975
3–4	Balance the cups: use the rule 2	L5976
3–4	Balance the cups: use the rule 3	L5977
	Balance the blobs (Years 3–6)	
3–6	 Balance the blobs	L5978
3–4	Balance the blobs: find the rule 1	L5979
4–5	Balance the blobs: find the rule 2	L5980
5–6	Balance the blobs: find the rule 3	L5981
	Hopper series (Years 3–6)	
6	Hopper challenge: tenths	L1088
6	Hopper challenge: ultimate	L1090
6	Hopper challenge: whole numbers	L1087
5–6	Hopper: hundredths	L587
4–5	Hopper: tenths	L1085
5–6	Hopper: ultimate	L1086
3–4	Hopper: whole numbers	L1084
	Squirt series (Years 4–8)	
V	Squirt: three containers	L1990
6–8	Squirt: three containers: complex proportional relationships	L1996
6–8	Squirt: three containers: level 1	L1991
6–8	Squirt: three containers: level 2	L1992
2–4	Squirt: two containers	L1993
2–4	Squirt: two containers: level 1	L1994
2–4	Squirt: two containers: level 2	L1995
	Bridge builder series (Years 5–9)	
5–9	Bridge builder: complex pentagons	L1926
5–9	Bridge builder: complex squares	L1925
5–9	Bridge builder: quadrilaterals	L1924
5–9	Bridge builder: triangles 1	L1922
5–9	Bridge builder: triangles 2	L1923
	Biscuit factory series (Years 5–9)	
7–9	Biscuit factory: complex ratios	L2372
7–9	Biscuit factory: gear direction	L2283
7–9	Biscuit factory: gears	L2375
5–9	Biscuit factory: ratios	L2371

7–9	Biscuit factory: three-gear system	L2374
7–9	Biscuit factory: two-gear system	L2373
	Biscuit factory: assessment series (Years 7–9)	
7–9	Biscuit factory: two gears: assessment	L9781
7–9	Biscuit factory: three gears: assessment	L9782
	Circus towers series (Years 7–9)	
7–9	Circus towers: rectangular prisms	L1938
7–9	Circus towers: square pyramids	L1939
7–9	Circus towers: square stacks	L1935
7–9	Circus towers: triangular prisms	L1937
7–9	Circus towers: triangular towers	L1936
	Filling glasses series (Years 6–9)	
6–9	Filling glasses: create the right glass	L761
6–9	Filling glasses: create the right graph	L760
6–9	Filling glasses: find the right glass	L1105
6–9	Filling glasses: find the right graph	L1106
6–9	Filling glasses: graphing and comparing	L759
	Filling glasses: assessment series (Years 7–9)	
7–9	Filling glasses: match: assessment	L9779
7–9	Filling glasses: create: assessment	L9780
	Mobile phone plans series (Years 8–9)	
8–9	Mobile phone plans: find the best deal 1	L762
8–9	Mobile phone plans: find the best deal 2	L763
8–9	Mobile phone plans: find the best deal 3	L1107
8–9	Mobile phone plans: one company	L1109
8–9	Mobile phone plans: peak and off-peak	L1108
8–9	Mobile phone plans: several companies	L1110
	Triathlon series (Years 6–9)	
8–9	Triathlon: distance-time graphs	L757
6–9	Triathlon: elite triathletes	L1103
8–9	Triathlon: the course	L1104
8–9	Triathlon: triathlete	L758
8–9	Triathlon: assessment	L8274
	Trig radians series (Years 11–12)	
11–12	 Trig radians	L7847
11–12	Trig radians: introduction	L7848
11–12	Trig radians: sine	L7849
11–12	Trig radians: cosine	L7850
11–12	Trig radians: tangent	L7851
11–12	Trig radians: sine tool	L9119
11–12	Trig radians: cosine tool	L9120
11–12	Trig radians: tangent tool	L9121
	Trigonometry: assessment (Years 10–12)	
10–12	Trigonometry: assessment	10–12
	Differential calculus series (Years 11–12)	
11–12	Differential calculus: linear graphs	L7819
11–12	Differential calculus: derivatives graphing tool	L7825
11–12	Differential calculus: non-linear graphs	L7820
11–12	 Differential calculus: linear and non-linear graphs	L7826
11–12	Differential calculus: the derivative	L7821
11–12	Differential calculus: power functions	L7822







11–12	 Differential calculus: derivatives and power functions	L7827
11–12	Differential calculus: cubic function	L7823
11–12	Differential calculus: quartic function	L7824
11–12	 Differential calculus: cubic and quartic functions	L7828
Content from other sources		
Algebra manipulatives series (Years P–9)		
P–3	Colour patterns	L3516
4–9	Attribute trains	L3551
4–9	Tower of Hanoi	L4158
6–9	Algebra balance scales [Windows version]	L3509
6–9	Algebra balance scales: negatives	L3510
6–9	Coin problem	L3514
7–9	Grapher	L3531
4–9	Function machine	L3527
Exploring Algebra series (Years 6–9)		
6–9	Exploring algebra	L6552
7–9	Exploring the laws of exponents	L6549
EagleCat: linear graph (Years 8–11)		
8–11	EagleCat: linear graph	L10090
EagleCat: parabola (Years 9–12)		
9–12	EagleCat: parabola	L10095
Mathematics and the car: loan calculator (Years 9–12)		
9–12	Mathematics and the car: loan calculator	L1449
EagleCat: cubic-G (Years 10–12)		
10–12	EagleCat: cubic-G	L10088
EagleCat: trig-G (Year 12)		
12	EagleCat: trig-G	L10089






Chance

Years	Learning object	TLF ID
	Spinners series (Years P–6)	
3–4	Spinners: basic builder	L2376
3–6	Spinners: advanced builder	L2377
P–1	Spinners: predict and test	L2378
1–2	Spinners: spin and label	L2379
2–3	Spinners: explore	L2380
4–5	Spinners: match up	L2381
3–6	Spinners: assessment	L8277
	The slushy sludger series (Years 2–4)	
2–4	The slushy sludger: questions	L115
2–4	The slushy sludger: best guess	L116
2–4	The slushy sludger: go figure	L117
	The vile vendor series (Years 4–6)	
4–6	The vile vendor: questions	L118
4–6	The vile vendor: go figure	L211
4–6	The vile vendor: best guess	L168
4–6	 The vile vendor	L226
	Mystery spinner series (Years 5–6)	
5–6	Mystery spinner: challenge	L2384
5–6	Mystery spinner: match the graph	L2383
5–6	 Mystery spinner	L2382
	The foul food maker series (Years 5–7)	
5–7	The foul food maker: questions 1	L212
5–7	The foul food maker: questions 2	L213
5–7	The foul food maker: best guess	L214
5–7	The foul food maker: go figure	L215
5–7	 The foul food maker	L227
	Dice duels series (Years 6–9)	
6–9	Dice duels: go-kart race	L2634
6–9	Dice duels: fair or unfair?	L2635
6–9	Dice duels: uneven distribution	L2636
6–9	Dice duels: bike race	L2637
6–9	Dice duels: lucky 16 game	L2639
6–9	Dice duels: airport addition	L2323
6–9	Dice duels: airport subtraction	L2640
6–9	 Dice duels	L2641
6–9	Dice duels: load one dice	L3671
6–9	Dice duels: load a pair of dice	L3672
6–9	Dice duels: find the bias	L3673
6–9	Dice duels: tool	L2645
	Dice duels: assessment series (Years 6–9)	
6–8	Dice duels: one dice: assessment	L9778
7–9	Dice duels: two dice: assessment	L9777
	Dice duels series (ESL) (Years 6–9)	
6–9	Dice duels: find the bias (ESL)	L10154
6–9	Dice duels: load a pair of dice (ESL)	L10153
6–9	Dice duels: load one dice (ESL)	L10152
	Random or not series (Years 6–9)	
6–9	Random or not: explore numbers of jubes (1:1:1)	L2392
6–9	Random or not: explore numbers of jubes (1:1)	L3653

6–9	Random or not: explore numbers of jubes (2:1)	L3654
6–9	Random or not: explore runs of jubes (1:1:1)	L3658
6–9	Random or not: explore runs of jubes (1:1)	L3659
6–9	Random or not: explore runs of jubes (2:1)	L3660
6–9	Random or not: explore alternating jubes (2:1)	L3661
6–9	Random or not: explore alternating jubes (1:1)	L3662
6–9	Random or not: analyse numbers of jubes (1:1:1)	L3655
6–9	Random or not: analyse numbers of jubes (1:1)	L3656
6–9	Random or not: analyse numbers of jubes (2:1)	L3657
6–9	Random or not: analyse runs of jubes (1:1:1)	L3663
6–9	Random or not: analyse runs of jubes (1:1)	L3664
6–9	Random or not: analyse runs of jubes (2:1)	L3665
6–9	Random or not: analyse alternating jubes (2:1)	L3666
6–9	Random or not: analyse alternating jubes (1:1)	L3667
6–9	Random or not: open investigations	L3668
Content from other sources		
Assessment items (Years 5–8)		
5–9	Tennis tournament: assessment	L8492
7–8	Red balls: assessment	L8865
7–8	Snakes and spinners: assessment	L8868
Exploring probability (Years 6–9)		
6–9	Exploring probability	L6567
Chance manipulatives series (Years 5–12)		
5–9	Hamlet happens	L3532
5–12	Coin tossing	L3515
HOTmaths: using relative frequency (Years 7–10)		
7–10	HOTmaths: using relative frequency	L10574
HOTmaths: exploring relative frequency (Years 7–10)		
7–10	HOTmaths: exploring relative frequency	L10573
HOTmaths: exploring measures of spread (Years 9–10)		
9–10	HOTmaths: exploring measures of spread	L10576
EagleCat: scatter (Years 11–12)		
11–12	EagleCat: scatter	L10087


Data



Years	Learning object	TLF ID
	Scatter plots series (Years 5–9)	
5–9	Scatter plots: about scatter plots	L5858
5–9	Scatter plots: height and bellybutton height	L5859
5–9	Scatter plots: age and reaction time	L5860
5–9	Scatterplots: foot length and hand span	L5861
5–9	Scatterplots: create your own data	L5862
5–9	 Scatterplots	L5857
	Scatter plots series (ESL) (Years 5–9)	
5–9	Scatter plots: age and reaction time (ESL)	L9916
5–9	Scatter plots: create your own data (ESL)	L9918
5–9	Scatter plots: foot length and hand span (ESL)	L9917
5–9	Scatter plots: height and bellybutton height (ESL)	L9915
	Matchbox machine series* (Years 5–9)	
5–8	Matchbox machine: take a sample	L2338
5–8	Matchbox machine: plot the variation	L2339
6–9	 Matchbox machine	L2340
5–8	*Matchbox machine: varying scoop size and speed	L2343
5–8	*Matchbox machine: varying scoop size	L2336
6–9	*Matchbox machine: varying speed	L2337
	Fix the matchbox machine series (Years 5–9)	
6–9	Fix the matchbox machine: scoop size and speed	L2343
6–9	Fix the matchbox machine: scoop size	L2336
6–9	Fix the matchbox machine: speed	L2337
	Rice crisp machine series (Years 5–9)	
5–8	Rice crisp machine: take a sample	L2342
5–8	Rice crisp machine: plot the variation	L3192
6–9	 Rice crisp machine	L2341
	Leisure survey series (Years 6–9)	
6–9	Leisure survey: team sport	L3155
6–9	Leisure survey: popular sports	L3156
6–9	Leisure survey: artistic activities	L3157
6–9	 Leisure survey	L3154
	Leisure survey series (ESL) (Years 6–9)	
6–9	Leisure survey: team sport (ESL)	L10251
6–9	Leisure survey: popular sports (ESL)	L10252
6–9	Leisure survey: artistic activities (ESL)	L10253
	Healthy life survey series (Years 6–9)	
6–9	Healthy life survey: bringing lunch to school	L3159
6–9	Healthy life survey: staying active	L3160
6–9	Healthy life survey: lunchtime activities	L3161
6–9	 Healthy life survey	L3158
	Home internet survey series (Years 6–9)	
6–9	Home internet survey: who?	L3151
6–9	Home internet survey: what?	L3152
6–9	Home internet survey: where?	L3153
6–9	 Home internet survey	L3150
	Home internet survey series (ESL) (Years 6–9)	
6–9	Home internet survey: who? (ESL)	L9962


6–9	Home internet survey: what? (ESL)	L9963
6–9	Home internet survey: where? (ESL)	L9964
	Media report series (Years 6–9)	
6–9	Media report: junk food	L2625
6–9	Media report: music	L2626
6–9	Media report: cost of petrol	L2627
6–9	 Media report 1	L2393
6–9	Media report: future plans	L2629
6–9	Media report: starting salaries	L2630
6–9	Media report: water usage	L2631
6–9	 Media report 2	L2628
	Skateboard survey (Years 6–9)	
6–9	Skateboard survey	L2394
	Graph investigator series (Years 7–9)	
7–9	 Graph investigator	L5903
7–9	Graph investigator: concentration	L5908
7–9	Graph investigator: getting to school	L5907
7–9	Graph investigator: hand preference	L5906
7–9	Graph investigator: home Internet access	L5910
7–9	Graph investigator: homework hours	L5909
7–9	Graph investigator: reaction time	L5905
7–9	Graph investigator: types of graphs	L5904
	Graph investigator series (ESL) (Years 7–9)	
7–9	Graph investigator: reaction time (ESL)	L10338
	Stem-and-leaf graphs series (Years 7–9)	
7–9	 Stem-and-leaf graphs	L5911
7–9	Stem-and-leaf graphs: an introduction	L5912
7–9	Stem-and-leaf graphs: height	L5914
7–9	Stem-and-leaf graphs: preferred hand speed	L5915
7–9	Stem-and-leaf graphs: reaction time	L5913
	Data handler series (Years 5–9)	
6–9	Data handler: bus handler	L8239
6–9	Data handler: sock order	L8238
6–9	Data handler: T shirt order	L8237
6–9	 Data handler	L5988
	Content from other sources	
	Data manipulatives series (Years 2–12)	
2–9	Pie chart	L3541
3–9	Spinners	L3546
6–9	Bar chart	L3512
6–9	Box plot/Histogram	L3513
9–12	Scatterplot	L3544
	Exploring data series (Years 6–9)	
6–9	Exploring graphs	L6563
6–9	Exploring measures of central tendency	L6564
	HOTmaths: using relative frequency (Years 7–10)	
7–10	HOTmaths: using relative frequency	L10574
	HOTmaths: exploring relative frequency (Years 7–10)	
7–10	HOTmaths: exploring relative frequency	L10573

	HOTmaths: exploring measures of spread (Years 9–10)	
9–10	HOTmaths: exploring measures of spread	L10576
	Graphing (Years 9–12)	
9–12	Graphing: the line of best fit	L1430
9–12	Graphing: pie graphs and column graphs	L1428
	EagleCat: scatter (Years 11–12)	
11–12	EagleCat: scatter	L10087




Measurement





Years	Learning object	TLF ID
	School day series (Years P–2)	
P–1	School day: analogue	L7789
P–1	School day: 12-hour digital	L7790
2	School day: 24-hour digital	L7797
	Area concept series (Years P–4)	
P–2	Finding the area of rectangles	L384
2–4	Finding the area of compound shapes	L383
P–4	 Area Counting with Coco	L139
	Time tools series (Years P–8)	
5–8	Time tools: 24-hour to the minute	L9642
5–8	Time tools: 24-hour to the minute: time challenge	L9646
5–8	Time tools: 24-hour to the minute: time match	L9647
5–8	Time tools: 24-hour to the minute: practice time	L9645
3–4	Time tools: 12-hour to the minute	L9643
3–4	Time tools: 12-hour to the minute: time challenge	L9649
3–4	Time tools: 12-hour to the minute: time match	L9650
3–4	Time tools: 12-hour to the minute: practice time	L9648
P–2	Time tools: 12-hour to the half hour	L9644
P–2	Time tools: 12-hour to the half hour: time challenge	L9652
P–2	Time tools: 12-hour to the half hour: time match	L9653
P–2	Time tools: 12-hour to the half hour: practice time	L9651
	Wake up, Pup series (Year 1–2)	
1–2	Wake up, Pup: analogue	L7791
1–2	Wake up, Pup: analogue and digital	L7792
	After school series (Year 2)	
2	After school: analogue and digital	L7796
2	After school: analogue	L7795
	Rice paper rolls series (Year 2)	
2	Rice paper rolls: analogue	L7793
2	Rice paper rolls: analogue and digital	
	Cubirocks (Years 2–4)	
2–4	Cubirocks galore	L161
2–4	Cubirocks are measured	L162
2–4	Cubirocks go!	L160
	Timetable series* (Years 3–8)	
3–4	Timetable: talent quest	L7898
7–8	Timetable: music festival challenge: run sheet	L7899
7–8	Timetable: music festival challenge	L7840
7–8	Timetable: music festival	L7841
5–6	Timetable: extreme talent quest	L7842
5–6	Timetable: extreme talent quest: travel	L7900
3–4	Timetable: talent quest: travel	L9892
	Inside cubes series (Years 5–9)	
5–8	How big is a cubic metre?	L163
5–8	Inside a cubic metre	L164
5–8	What's in a cube?: level 1	L165
5–8	What's in a cube?: level 2	L166
7–9	Working it out!	L167


	Area of triangles series (Years 6–9)	
6–9	 Area of triangles	L145
6–9	Area of triangles: height intersects with the base inside the triangle	L355
6–9	Area of triangles: height intersects with the base outside the triangle	L356
6–9	Area of triangles: triangles with a right angle	L354
6–9	Area of triangles: triangles without vertical or horizontal sides	L357
6–8	Area of triangles: assessment	L8273
	Area of compound shapes series (Years 6–9)	
6–9	Compound shapes: small shapes	L150
6–9	Compound shapes: medium-sized shapes	L151
6–9	Compound shapes: large shapes	L152
6–9	 Compound shapes	L153
	Measures series (Years 7–9)	
7–9	Measures: similar shapes	L2309
7–9	Measures: scaling up	L2310
7–9	Measures: scaling down	L2311
7–9	Measures: similar solids	L2312
7–9	Measures: scaling up solids	L2313
7–9	Measures: scaling down solids	L2314
7–9	Measures: scaling surface area	L2315
7–9	Measures: volumes	L2316
	Trigonometry series (Years 7–9)	
7–9	Trigonometry: measuring with triangles	L2326
7–9	Trigonometry: similar triangles	L2327
7–9	Trigonometry: cosine	L2328
7–9	Trigonometry: sine	L2329
7–9	Trigonometry: tangent	L2330
7–9	Trigonometry: using sine	L2332
7–9	Trigonometry: using cosine	L2333
7–9	Trigonometry: using tangent	L2331
7–9	Trigonometry: finding the hypotenuse	L2334
7–9	Trigonometry: finding angles	L2335
	The Metrix series (Years 7–10)	
7–8	The Metrix: new planet	L8146
8–10	The Metrix: asteroid	L8147
6–8	The Metrix: comet	L8145
7–8	The Metrix: comet: decimals	L8148
8–10	The Metrix: asteroid: decimals	L8150
7–8	The Metrix: new planet: decimals	L8149
6–8	The Metrix: mass	L10869
6–8	The Metrix: metric table	L10870
6–8	The Metrix: length 1	L10871
6–8	The Metrix: length 2	L10872
6–8	The Metrix: capacity 1	L10873
6–8	The Metrix: capacity 2	L10874
7–8	The Metrix: decimals: mass 1	L10878
7–8	The Metrix: decimals: length 1	L10879
7–8	The Metrix: decimals: capacity	L10880
7–8	The Metrix: decimals: length 2	L10881
7–8	The Metrix: decimals: area 1	L10882
7–8	The Metrix: decimals: volume	L10883
7–8	The Metrix: decimals: area 2	L10887

7–8	The Metrix: decimals: mass 2	L10888
8–10	The Metrix: power	L10875
8–10	The Metrix: frequency	L10876
8–10	The Metrix: volume	L10877
8–10	The Metrix: decimals: rate 1	L10884
8–10	The Metrix: decimals: rate 2	L10885
8–10	The Metrix: decimals: rate 3	L10886
	Trigonometry: assessment (Years 10–12)	
10–12	Trigonometry: assessment	L9180
	Trig degrees series (Years 11–12)	
11–12	Trig degrees: sine tool	L9113
11–12	Trig degrees: cosine tool	L9114
11–12	Trig degrees: tangent tool	L9115
11–12	Trig degrees: sine to 360	L7844
11–12	Trig degrees: cosine to 360	L7845
11–12	Trig degrees: tangent to 360	L7846
11–12	Trig degrees: sine to 360: demo	L9116
11–12	Trig degrees: cosine to 360: demo	L9117
11–12	Trig degrees: tangent to 360: demo	L9118
11–12	 Trig degrees	L7843
	Content from other sources	
	Exploring measurement series (Years 6–10)	
6–9	Exploring ratios and proportions	L6546
6–9	Exploring area and perimeter	L6557
6–9	Exploring triangles	L6558
7–9	Exploring square roots	L6547
7–9	Exploring the Pythagorean theorem	L6559
8–10	Exploring trigonometry	L6561
	Time manipulatives series (Years P–10)	
P–6	Time: analogue and digital clocks	L3548
P–6	Time: match clocks	L3549
P–6	Time: what time will it be?	L3550
	Volume manipulative series (Years 4–9)	
4–9	How high?	L3534
	HOTmaths: using a beam balance (Years 7–8)	
7–8	HOTmaths: using a beam balance	L10570
	HOTmaths: exploring areas of rectangles and squares (Years 7–8)	
7–8	HOTmaths: exploring areas of rectangles and squares	L10569
	HOTmaths: exploring kites (Years 7–10)	
7–10	HOTmaths: exploring kites	L10572
	EagleCat: rotasym (Years 6–9)	
6–9	EagleCat: rotasym	L10086
	EagleCat: scale it (Years 7–10)	
7–10	EagleCat: scale it	L10091
	EagleCat: spin graph (Years 5–12)	
5–12	EagleCat: spin graph	L10092
	EagleCat: motion graphs (Year 10)	
10	EagleCat: motion graphs	L10093
	EagleCat: bearings (Year 7)	
7	EagleCat: bearings	L10094
	EagleCat: trig-G (Year 12)	
12	EagleCat: trig-G	L10089





Number

Years	Learning object	TLF ID
Number – exploring numbers		
Number trains series (Years P–5)		
P–1	Number trains: numbers 1–10	L2318
P–1	Number trains: numbers 1–20	L2319
1–2	Number trains: numbers 30–50	L2320
1–2	Number trains: numbers 90–120	L2321
1–3	Number trains: skip counting	L2322
P–3	 Number trains	L2317
3–5	Number trains: patterns: assessment	L8275
3–5	Number trains: counting on: assessment	L8276
3–5	Number trains: counting on: assessment	L8276
Scale matters series (Years P–8)		
P–2	Scale matters: ones	L2003
2–4	Scale matters: tens	L2004
2–4	Scale matters: hundreds	L2005
4–6	Scale matters: tens of thousands	L1999
P–4	Scale matters: simple units	L2002
4–6	Scale matters: tenths	L1998
6–8	Scale matters: hundredths	L2000
6–8	Scale matters: negatives	L2001
4–8	 Scale matters: range of numbers	L1997
7–8	Scale matters: all numbers: assessment	L8629
5–7	Scale matters: decimal numbers: assessment	L8630
1–4	Scale matters: whole numbers: assessment	L8631
What’s the problem series (Years 3–8)		
3–4	What’s the problem: nature: level 1	L8154
3–4	What’s the problem: planets: level 1	L8155
3–4	What’s the problem: sports: level 1	L8156
5–6	What’s the problem: nature: level 2	L8157
5–6	What’s the problem: planets: level 2	L8158
5–6	What’s the problem: sports: level 2	L8159
7–8	What’s the problem: nature: level 3	L8160
7–8	What’s the problem: planets: level 3	L8161
7–8	What’s the problem: sports: level 3	L8162
Kick the goal: assessment series (Years 5–8)		
5–7	Kick the goal: add proper fractions 1: assessment	L9811
6–8	Kick the goal: add improper fractions 1: assessment	L9812
5–7	Kick the goal: add proper fractions 2: assessment	L10287
6–8	Kick the goal: add improper fractions 2: assessment	L10288
Number – calculation		
Counting beetle (Years P–1)		
P–1	 Counting beetles	L8280
P	Counting beetles: level 1	L8281
P–1	Counting beetles: level 2	L8282
1	Counting beetles: level 3	L8283
1–2	Counting beetles: making word problems	L8284
1–2	Counting beetles: solving word problems	L8285
The number partner series (Years 2–4)		
2–4	The number partner	L103
2–4	The number partner: go figure	L105

	The array series (Years 2–4)	
2–4	The array	L106
2–4	The array: go figure	L108
	Divide it up series (Years 2–4)	
2–4	Divide it up: grouping tool	L2810
2–4	Divide it up: hardware	L2811
2–4	Divide it up: kittens	L2812
2–4	Divide it up: puppies	L2808
2–4	Divide it up: sharing tool	L2809
	Pobble arrays series (Years 2–4)	
2	Pobble arrays: find a factor	L2057
2–3	Pobble arrays: find two factors	L2058
3–4	Pobble arrays: make multiples	L2056
	Pobble arrays: assessment series (Years 3–5)	
3–4	Pobble arrays: find factors: assessment	L9832
4–5	Pobble arrays: make multiples: assessment	L9833
	Arrays series (Years 3–5)	
3–4	Arrays: factor families	L2059
4–5	Arrays: explore factors	L2060
4–5	Arrays: word problems with products from 10 to 30	L2054
4–5	Arrays: word problems with products from 30 to 50	L2055
4–5	Arrays: word problems with products from 35 to 64	L2053
	The part-adder series (Years 3–6)	
3–6	 The part-adder	L220
3–6	The part-adder: generate easy sums	L93
3–6	The part-adder: generate hard sums	L94
3–6	The part-adder: go figure	L96
3–6	The part-adder: make your own easy sums	L91
3–6	The part-adder: make your own hard sums	L92
	The difference bar series (Years 3–6)	
3–6	The difference bar: generate easy subtractions	L111
3–6	The difference bar: generate hard subtractions	L112
3–6	The difference bar: go figure	L114
3–6	The difference bar: make your own easy subtractions	L109
3–6	The difference bar: make your own hard subtractions	L110
3–6	 Difference bars	L224
	The take-away bar series (Years 3–6)	
3–6	The take-away bar: generate easy subtractions	L99
3–6	The take-away bar: generate hard subtractions	L100
3–6	The take-away bar: go figure	L102
3–6	The take-away bar: make your own easy subtractions	L97
3–6	The take-away bar: make your own hard subtractions	L98
3–6	 Take-away bars	L221
	The multiplier series (Years 3–6)	
3–6	 The multiplier	L219
3–6	The multiplier: generate easy multiplications	L83
3–6	The multiplier: generate hard multiplications	L84
3–6	The multiplier: go figure	L90
3–6	The multiplier: make your own easy multiplications	L61
3–6	The multiplier: make your own hard multiplications	L82





	Thinking addition: assessment series* (Years 4–6)	
4–6	Thinking addition: 2-digit plus 2-digit: assessment	L9926
4–6	Thinking addition: 2-digit plus 1-digit: assessment	L9927
	The divider series (Years 4–8)	
4–6	The divider: whole number remainders	L2008
4–6	The divider: without remainders	L2007
4–8	The divider: solve your own problem	L2009
6–8	The divider: with or without remainders	L2006
	School canteen series (Years 5–9)	
5–9	School canteen: best buy: level 1	L1928
5–9	School canteen: estimate and check: level 1	L1930
5–9	School canteen: restock: level 1	L1927
5–9	School canteen: two traders: level 1	L1929
7–9	School canteen: best buy: level 2	L1932
7–9	School canteen: estimate and check: level 2	L1934
7–9	School canteen: restock: level 2	L1931
7–9	School canteen: two traders: level 2	L1933
	Swamp survival (Years 6–8)	
6–8	Swamp survival: thousandths patterns	L7905
6–8	Swamp survival: hundredths counting	L7901
6–8	Swamp survival: hundredths patterns	L7902
6–8	Swamp survival: hundredths challenge	L7903
6–8	Swamp survival: thousandths challenge	L7906
6–8	Swamp survival: thousandths counting	L7904
	Integer cruncher series (Years 7–8)	
7–8	Integer cruncher: addition	L1100
7–8	 Integer cruncher: addition and subtraction	L585
7–8	Integer cruncher: subtraction	L1101
	In proportion series (Years 8–9)	
8–9	In proportion: ratios	L8098
8–9	In proportion: rates and scales	L8099
8–9	In proportion: variables in ratios	L8101
8–9	In proportion: variables in rates and scales	L8102
8–9	In proportion: graphs of ratios, rates and scales	L8103
	Content from other sources	
	Number manipulatives (Years P–9)	
P–4	Numberline arithmetic	L3536
2–8	Numberline bars	L3537
3–9	Diffy	L4159
3–9	Rectangle division	L3704
3–9	Rectangle multiplication	L3503
5–9	Rectangle multiplication: integers	L3504
5–9	Sieve of Eratosthenes	L3545
5–9	Circle 99	L3508
6–9	Circle 0	L3506
6–9	Circle 3	L3507
6–9	Pascal's triangle	L3538
	Assessment items (Years 5–9)	
5–8	Party time: assessment	L8491
8–9	Vitality drinks: assessment	L8867

	Exploring number (Years 6–9)	
6–9	Exploring order of operations	L6543
6–9	Exploring integers	L6544
6–9	Exploring exponents and scientific notation	L6550
6–9	Exploring number patterns	L6551
6–9	Exploring linear equations	L6553
7–9	Exploring powers of 10	L6548
	Number – fractions	
	Comparing fractions: assessment (Years 3–6)	
3–6	Comparing fractions: assessment	L7736
	Fraction fiddle series (Years 3–6)	
2–3	Fraction fiddle: matching cake fractions	L2801
3–4	Fraction fiddle: comparing non-unit fractions	L2803
3–4	Fraction fiddle: comparing unit fractions	L2802
3–4	Fraction fiddle: hit the apple	L2804
5–6	Fraction fiddle: reach the target	L2806
4–5	Fraction fiddle: shoot the hoop	L2805
3–6	Fraction fiddle: tool	L2800
	Dynamic tools series (Years 3–6)	
3–6	Shape fractions	L135
3–6	Dynamic fractions	L134
	Decimaster series (Years 3–6)	
3–4	Decimaster collections: match-up 1	L1081
4–5	Decimaster collections: match-up 2	L1082
5–6	Decimaster collections: match-up 3	L1083
3–4	Decimaster plus: match-up 1	L1078
3–5	Decimaster plus: match-up 2	L1079
3–5	Decimaster plus: match-up 3	L1080
3–4	Decimaster: match-up 1	L1076
3–5	Decimaster: match-up 2	L1077
4–6	Decimaster: match-up 3	L586
	Wishball (Years 3–6)	
2–4	Wishball: tens	L8458
2–4	Wishball: hundreds	L8456
3–4	Wishball: whole numbers	L867
4–5	Wishball: tenths	L868
5–6	Wishball: hundredths	L869
5–6	Wishball: thousandths	L495
6	Wishball: ultimate	L870
2–4	Wishball challenge: tens	L8459
2–4	Wishball challenge: hundreds	L8457
3–4	Wishball challenge: whole numbers	L871
4–5	Wishball challenge: tenths	L872
5–6	Wishball challenge: hundredths	L873
5–6	Wishball challenge: thousandths	L874
6	Wishball challenge: ultimate	L875
5–7	Wishball tournament	L8460
	Design briefs series (Years 3–8)	
3–5	Design a park	L120
4–6	Design your own park	L121

4–6	 Park fractions	L126
5–8	Design a city	L123
5–8	Design a farm	L124
5–8	Design a neighbourhood	L122
5–8	Design a school	L127
5–8	Design your own school	L128
5–8	 Playground percentages	L133
5–8	 Neighbourhood fractions	L125
	Design: assessment series (Years 6–7)	
6–7	Design a school: 10 by 10 grid: assessment	L9928
6–7	Design a farm: 5 by 10 grid: assessment	L9929
6–7	Design a park: 5 by 5 grid: assessment	L9930
6–7	Design a farm: 5 by 10 grid: assessment	L9929
	Cassowary fractions series (Years 4–6)	
4–6	Cassowary ecology quiz	L119
4–6	Cassowary fractions	L155
4–6	 Cassowary sanctuary	L86
	Content from other sources	
	Fraction manipulatives series (Years P–6)	
6–9	Fraction pieces	L3520
6–9	Fractions: comparing	L3521
6–9	Fractions: equivalent	L3651
6–9	Fractions: naming	L3523
6–9	Fractions: parts of a whole	L3524
6–9	Fractions: rectangle multiplication	L3525
6–9	Fractions: visualising	L3526
	Exploring fractions and percentages (Years 5–9)	
5–9	Exploring fractions	L6542
7–9	Exploring combined percentages	L6545

Space

Years	Learning object	TLF ID
	Finding symmetry series (P–2)	
P–2	Finding symmetry: one line: garden	L7800
1–2	Finding symmetry: two lines: garden	L7799
2	Finding symmetry: three lines: garden	L7798
P–2	Finding symmetry: one line: city	L7803
1–2	Finding symmetry: two lines: city	L7802
2	Finding symmetry: three lines: city	L7801
	Tessellate decorate series (P–2)	
1–2	Tessellate decorate: rectangles	L7781
1–2	Tessellate decorate: squares	L7782
1–2	Tessellate decorate: equilateral triangles	L7783
1–2	Tessellate decorate: hexagons and triangles	L7784
1–2	Tessellate decorate: rhombuses	L7785
1–2	Tessellate decorate: right-angled triangles	L7786
1–2	Tessellate decorate: trapeziums	L7787
1–2	Tessellate decorate: three shapes	L7788
	Shape overlays series (Years P–4)	
P–2	Shape overlays: find and cut	L752
1–2	Shape overlays: find, cut and turn	L1072
3–4	Shape overlays: picture puzzle	L1073
P–4	Shape overlays: picture studio	L1071
	Direct a robot series (Years 2–4)	
2–4	Direct a robot: collector	L753
2–4	Direct a robot: how far?	L1075
2–4	Direct a robot: which way?	L1074
	Face painter series (Years 2–5)	
2–3	Face painter: finding faces 1	L1068
3–4	Face painter: finding faces 2	L653
4–5	Face painter: locating faces	L1069
4–5	Face painter: predicting faces	L1070
	Shape maker series (Years 2–6)	
3–4	Shape maker: blocker	L1058
4–6	Shape maker: complex objects 1	L1061
4–6	Shape maker: complex objects 2	L1062
4–6	Shape maker: replicator	L1059
2–3	Shape maker: simple objects	L1060
3–4	Shape maker: stacker	L588
	Shape maker: assessment series (Years 5–7)	
5–6	Shape maker: simple shapes: assessment	L9931
6–7	Shape maker: complex shapes: assessment	L9932
	Shape sorter series (Years 3–4)	
3–4	Shape sorter: basic shapes	L8163
3–4	Shape sorter: basic shapes: singles	L8168
3–4	Shape sorter: basic shapes: pairs	L10331
5–6	Shape sorter: more shapes	L8164
5–6	Shape sorter: triangles	L8165
7–8	Shape sorter: quadrilaterals	L8166
3–4	Shape sorter: polygons	L8167
3–4	Shape sorter: wand tool	L10736
3–4	Shape sorter: modify tool	L10737

	Building site series (Years 4–9)	
4–9	 Building site	L654
4–9	Building site: level 1	L849
4–9	Building site: level 2	L1097
4–9	Building site: level 3	L1098
4–9	Building site: level 4	L1099
	Contours series (Years 5–9)	
5–9	 Contours	L1095
5–9	Contours: about contours	L1329
5–9	Contours: loony landscapes	L655
5–9	Contours: mystery shapes	L1096
	Photo hunt series (Years 4–9)	
4–9	 Photo hunt	L6246
4–9	Photo hunt: level 1	L6258
4–9	Photo hunt: level 2	L6259
4–9	Photo hunt: level 3	L6260
4–9	Photo hunt: level 4	L6261
	Viewfinder series (Years 4–9)	
4–9	 Viewfinder	L6245
4–9	Viewfinder: all angles	L6262
4–9	Viewfinder: backwards glance	L6263
4–9	Viewfinder: flip side	L6264
4–9	Viewfinder: up front	L6265
	Journey planner series (Years 6–9)	
6–9	Journey planner: quickest route 1	L764
6–9	Journey planner: quickest route 2	L765
6–9	Journey planner: quickest route 3	L1111
	Contours series (Years 5–9)	
5–9	Contours: about contours	L7553
5–9	Contours: mystery shapes	L7554
5–9	Contours: loony landscapes	L7555
5–9	Contours	7552
	Content from other sources	
	Assessment items (Years 5–8)	
5–6	Toby jigsaw puzzle: assessment	L8490
5–6	Treasure hunt: assessment	L8866
6–8	Lion tamer: assessment	L8869
	Exploring space series (Years 6–9)	
6–9	Exploring relationships of angles	L6554
6–9	Exploring angles	L6555
6–9	Exploring diameter and circumference	L6556
6–9	Exploring quadrilaterals	L6562
6–9	Exploring transformations	L6565
6–9	Exploring dilations	L6566
	Space manipulatives series	
P–3	Attribute blocks	L3511
P–4	Ladybird mazes	L3535
P–9	Pentominoes	L3540
P–9	Tessellations	L3547
2–6	Pattern blocks	L3539
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7–8	HOTmaths: using a centre of enlargement	L10571
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7–10	HOTmaths: exploring bearings	L10575