

NRICH Links

NRICH (<http://nrich.maths.org>) is an Internet maths club. Each month new ‘problems’ appear. These may be interactive, e.g. ‘Factor Lines (Int)’, or even complete environments, e.g. ‘Number Balance (Env)’. The chart shows NRICH problems matching specific Magic Mathworks interactives or general topics. Our ‘blue’ set contains all Magic Mathworks stations. Those also found in our set of giant interactives, the ‘red’ set, are so marked, e.g. ‘Mirror Symmetry (red set)’.

Magic Mathworks station	NRICH problem	NRICH web link
MULTIPLICATION	Factor Lines (Int) Stars (Int)	http://nrich.maths.org/1138 http://nrich.maths.org/2669
1.1 Human Sentences	Which Symbol? (Int)	http://nrich.maths.org/6777
1.2 Multiplication Square Jigsaws	Multiplication Square Jigsaw (Int)	http://nrich.maths.org/5573
1.3 Seesaw (red set)	Number Balance (Env)	http://nrich.maths.org/4725
1.6 Gear Ratios	Turning Cogs (Int)	http://nrich.maths.org/4771
TRANSFORMATIONS		
2.3.1-3 Squaring Up and Down (red set) The O.H.P. as Enlarger The Rubber Band Enlarger	A Question of Scale (Int) Twice as Big? (Int) Two Squared	http://nrich.maths.org/6349 http://nrich.maths.org/5561 http://nrich.maths.org/82
TRANSFORMATIONS (Virtual Circus)		
Rubber Band Circus of Transformations	Who is the Fairest of Them All?	http://nrich.maths.org/5461
SYMMETRY		
3.1.1 Mirror Symmetry (red set)	Mirror, Mirror on the Wall	http://nrich.maths.org/5458 http://nrich.maths.org/5459
3.2.1.1 Rotation Symmetry 1 (red set)	Turning Man (Int)	http://nrich.maths.org/5560
3.2.1.2 Rotation Symmetry 2	Colouring Triangles	http://nrich.maths.org/171

3.5	Order of Symmetry	Sorting Symmetries (Int) Tablecloth	http://nrich.maths.org/2644 http://nrich.maths.org/900
TILINGS & PACKINGS			
4.1.1	Tilings with Regular Polygons (red set)	Tessellation Interactivity (Env) Semiregular Tessellations (Int) Shapeley Tiling (Int)	http://nrich.maths.org/6069 http://nrich.maths.org/4832 http://nrich.maths.org/1884
4.2	Penrose Tilings	Building Stars (Int)	http://nrich.maths.org/1268
DISSECTIONS			
		Twice as Big? (Int) Two Squared 30-60-90 Polypuzzle (Int)	http://nrich.maths.org/5561 http://nrich.maths.org/82 http://nrich.maths.org/411
5.1.3	Pentominoes: the 3x20 Rectangle (red set)	Cellular (Env)	http://nrich.maths.org/6543
SEQUENCES			
		Interactive Number Patterns (Int)	http://nrich.maths.org/5815
7.1.1	Triangle Numbers (red set)	Picturing Triangle Numbers (Int)	http://nrich.maths.org/2274
7.1.3	Handshakes (red set)	Handshakes (Int) Mystic Rose (Int)	http://nrich.maths.org/6708 http://nrich.maths.org/6703
7.2.1	Square Numbers (red set)	Cellular (Env)	http://nrich.maths.org/6543
7.5.3	Chops	Combining Cuisenaire (Int)	http://nrich.maths.org/4515
7.6.1	Sliding Sam (red set)	Sliding Puzzle (Int)	http://nrich.maths.org/2464
7.7	Leapfrog (red set)	Frogs (Int)	http://nrich.maths.org/1246
NUMBER PATTERNS (Virtual Circus)			
	Number Shapes: 2-D Number Shapes: Hexagons	Christmas Chocolates	http://nrich.maths.org/6675
LOCI & LINKAGES			
8.1.1	Rolling Curves 1	How Far Does It Move? (Int) Speeding Up, Slowing Down (Int) Up and Across (Int)	http://nrich.maths.org/4808 http://nrich.maths.org/4809 http://nrich.maths.org/4810
8.1.2	Rolling Curves 2	Just Rolling Round (Int)	http://nrich.maths.org/263

	Rollin' Rollin' Rollin' (Int)	http://nrich.maths.org/2162
HEURISTIC		
10.1.3 The Pie Game	Last Biscuit (Int)	http://nrich.maths.org/1186
10.1.4 Domino Block (red set)	Horizontal Vertical (Int)	http://nrich.maths.org/2761
10.5.1 Latin Squares	Colour in the Square (Int)	http://nrich.maths.org/1090
10.5.2 Graeco-Latin Squares 1 (red set)	Tea Cups	http://nrich.maths.org/32
10.6 A Domino Rectangle	Dominoes Environment (Env)	http://nrich.maths.org/6361
10.7 Overlaps	Overlaps (Int) Overlapping Again (Int) Overlapping Circles (Int)	http://nrich.maths.org/5819 http://nrich.maths.org/5820 http://nrich.maths.org/2155
10.8 Baffled by Baubles?	Arrangements (Int)	http://nrich.maths.org/2672

Updated to 11.12.09