

Problem Solving

Autumn 1: Trial and Improvement KS1: https://nrich.maths.org/11083 KS2: https://nrich.maths.org/11084	
Year 1	One Big Triangle https://nrich.maths.org/192
Year 2	Find the difference https://nrich.maths.org/6227/note Difference https://nrich.maths.org/927/index Two digit targets https://nrich.maths.org/6343/note Five steps to 50 https://nrich.maths.org/10586/note
Year 3	Fifteen cards https://nrich.maths.org/7506
Year 4	Four digit targets https://nrich.maths.org/6342/note Zios and Zepts https://nrich.maths.org/1005/note
Year 5	Four colours https://nrich.maths.org/1087/note Daisy https://nrich.maths.org/1189/note
Year 6	Cycling squares https://nrich.maths.org/1151/note Factors and Multiples chains https://nrich.maths.org/5578/note

Autumn 2: Working Systematically KS1: https://nrich.maths.org/9798 KS2: https://nrich.maths.org/9803	
Year 1	Robots https://nrich.maths.org/2404/note Inside triangles https://nrich.maths.org/5648/note
Year 2	Same length trains https://nrich.maths.org/4332/note Two dice https://nrich.maths.org/150/note Triangle animals https://nrich.maths.org/4869/note
Year 3	School fair necklaces https://nrich.maths.org/9692
Year 4	Half-time https://nrich.maths.org/7408 Five coins https://nrich.maths.org/142

Year 5	Two primes make one square https://nrich.maths.org/1150/note Reach 100 https://nrich.maths.org/1130/note Round the Circle
Year 6	This Pied Piper of Hamelin https://nrich.maths.org/8315 Sealed solution https://nrich.maths.org/1177

Spring 1: Pattern spotting <https://nrich.maths.org/9944>

Year 1	Next domino https://nrich.maths.org/168 Domino sequences https://nrich.maths.org/241 Domino patterns https://nrich.maths.org/9970 Missing middles https://nrich.maths.org/225 Domino sorting https://nrich.maths.org/4940
Year 2	Ring of numbers https://nrich.maths.org/2782 More numbers in the ring https://nrich.maths.org/2783/index
Year 3	Lots of Lollies https://nrich.maths.org/2360
Year 4	Dominoes sets https://nrich.maths.org/9965/note Amy's Dominoes https://nrich.maths.org/1044
Year 5	Consecutive Numbers https://nrich.maths.org/consecutivenumbers Consecutive negative numbers https://nrich.maths.org/5868 Number spirals https://nrich.maths.org/8408/note
Year 6	Times Table Shifts https://nrich.maths.org/6863/note Shifting Times Tables https://nrich.maths.org/6713

Spring 2: Working backwards

KS1: <https://nrich.maths.org/11085>

KS2: <https://nrich.maths.org/11086>

Year 1	Starfish spotting https://nrich.maths.org/182 (or One is a Snail, Ten is a Crab?)
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Year 2	Noah https://nrich.maths.org/136/index Nim-7 https://nrich.maths.org/1204
Year 3	Play to 37 https://nrich.maths.org/10328
Year 4	First Connect Three https://nrich.maths.org/5865 Nice or Nasty https://nrich.maths.org/6605
Year 5	Maze 100 https://nrich.maths.org/91 Mystery Matrix https://nrich.maths.org/1070/note
Year 6	Andy's Marbles https://nrich.maths.org/2421/index Would you rather? https://nrich.maths.org/1118/note

Summer 1: Reasoning logically

Also use Talk it, Solve it resources.

KS1: <https://nrich.maths.org/9016>

KS2: <https://nrich.maths.org/8921>

Year 1	Two numbers under the microscope https://nrich.maths.org/8059/note
Year 2	I like... https://nrich.maths.org/6962/note How odd https://nrich.maths.org/7190
Year 3	Guess the dominoes https://nrich.maths.org/6995
Year 4	Less is more https://nrich.maths.org/less-is-more
Year 5	Magic Vs https://nrich.maths.org/6274
Year 6	Six ten total https://nrich.maths.org/10917 What's it worth https://nrich.maths.org/whatsitworth

Summer 2: Visualising and Conjecturing

Visualising KS1: <https://nrich.maths.org/11087>

Visualising KS2: <https://nrich.maths.org/11088>

Conjecturing KS1:

<https://nrich.maths.org/9009>

		Conjecturing KS2: https://nrich.maths.org/8915
Year 1	Paper Partners https://nrich.maths.org/12234	Break it up https://nrich.maths.org/2284&part= Next door numbers https://nrich.maths.org/13665
Year 2	Cover the Camel https://nrich.maths.org/4866 Skeleton Shapes https://nrich.maths.org/1156	The Add and Take Away paths https://nrich.maths.org/7281 Strike it out https://nrich.maths.org/strike-it-out
Year 3	How many? https://nrich.maths.org/14404 How would we count? https://nrich.maths.org/8123	Always, sometimes, never (1 st set of statements) https://nrich.maths.org/12672 Always, sometimes, never shape (1 st set of statements) https://nrich.maths.org/12673
Year 4	Seeing squares https://nrich.maths.org/13125 Hundred square https://nrich.maths.org/2397/note Square corners https://nrich.maths.org/1142	Diagonally Square https://nrich.maths.org/2822 Take three numbers https://nrich.maths.org/8063
Year 5	Holes https://nrich.maths.org/6529 Two squared https://nrich.maths.org/82/note Odd squares https://nrich.maths.org/2280	Always, sometimes, never (2 nd set of statements) https://nrich.maths.org/12672 Always, sometimes, never shape (2 nd set of statements) https://nrich.maths.org/12673 Factors and Multiples https://nrich.maths.org/factorsandmultiples
Year 6	Snake Coils https://nrich.maths.org/8811/note A puzzling cube https://nrich.maths.org/1140 Cut nets https://nrich.maths.org/2315	Six numbered cubes https://nrich.maths.org/10918 Got it https://nrich.maths.org/1272