

Underground Mathematics - Building Blocks
Colleen Young - favourites

Title	Station	Hyperlink	KS
Composing gets me nowhere	Combining Functions	https://undergroundmathematics.org/combining-functions/composing-gets-me-nowhere	4,5
One step, two step	Divisibility & Induction	https://undergroundmathematics.org/divisibility-and-induction/one-step-two-step	3,4,5
Reach for the stars	Exponentials & Logarithms	https://undergroundmathematics.org/exp-and-log/reach-for-the-stars	3,4,5
Lots of lines!	Geometry of Equations	https://undergroundmathematics.org/geometry-of-equations/lots-of-lines	3,4,5
Straight lines	Geometry of Equations	https://undergroundmathematics.org/geometry-of-equations/describing-straight-lines	3,4,5
Spot the difference	Geometry of Equations	https://undergroundmathematics.org/geometry-of-equations/spot-the-difference	4,5
Speed vs velocity	Introducing Calculus	https://undergroundmathematics.org/introducing-calculus/speed-vs-velocity	5
Walk-sorting	Introducing Calculus	https://undergroundmathematics.org/introducing-calculus/walk-sorting	4,5
Which quadratic?	Quadratics	https://undergroundmathematics.org/quadratics/which-quadratic	4,5
Approaching asymptotes	Thinking about Functions	https://undergroundmathematics.org/thinking-about-functions/approaching-asymptotes	5
That's odd ... or even	Thinking about Functions	https://undergroundmathematics.org/thinking-about-functions/thats-odd-or-even	5
Ab-surd!	Thinking about Numbers	https://undergroundmathematics.org/thinking-about-numbers/absurd	4,5
t for tan	Trigonometry: Compound Angles	https://undergroundmathematics.org/trigonometry-compound-angles/t-for-tan	5
Going round in circles	Trigonometry: Triangles to Functions	https://undergroundmathematics.org/trigonometry-triangles-to-functions/going-round-in-circles	5
Muddled trig	Trigonometry: Triangles to Functions	https://undergroundmathematics.org/trigonometry-triangles-to-functions/muddled-trig	5
Hit the spot	Vector Geometry	https://undergroundmathematics.org/vector-geometry/hit-the-spot	5

Notes on Key Stage - note these are my personal thoughts only

3: Challenge your able younger students with some of these ideas, you could adapt / provide more prompts...

4: Some Underground Mathematics resources work well for students chasing the highest grades

5: Underground Mathematics resources challenge your students at Advanced level