

Year 8 Maths Oak Academy Work - Spring Term 1

6. Symmetry, Similarity and Congruence				
4 to 5	6 to 7	8 to 9		
x			Draw the lines of symmetry on a 2-D shape	https://classroom.thenational.academy/lessons/lines-of-symmetry-6rtk2c
x	x	x	Recognise planes of symmetry of a 3D shape	N/A
x	x	x	Give the order of rotational symmetry of a 2-D shape	https://classroom.thenational.academy/lessons/rotational-symmetry-ccrkee
x	x	x	Understand the term "congruent" and recognise congruent shapes	https://classroom.thenational.academy/lessons/identify-congruent-shapes-6mwkcc
x	x	x	Understand the term "similar" and recognise similar shapes	https://classroom.thenational.academy/lessons/identify-similar-shapes-and-show-shapes-are-similar-6rtkqt
x	x	x	Match the sides and angles of similar shapes	See find the missing lengths and angles in similar shapes
x	x	x	Enlarge a shape by a scale factor (not on a coordinate grid)	https://classroom.thenational.academy/lessons/enlarge-an-object-with-a-positive-scale-factor-c4v3gc
	x	x	Find the missing lengths and angles in similar shapes	https://classroom.thenational.academy/lessons/find-missing-lengths-in-similar-separate-shapes-6wvk8c
				https://classroom.thenational.academy/lessons/find-missing-lengths-in-similar-shapes-which-have-sides-overlapping-ctjkac
		x	Find the area and volume of similar shapes	https://classroom.thenational.academy/lessons/enlargements-74vkjd
				https://classroom.thenational.academy/lessons/enlargements-and-area-60wkjd

Year 8 Maths Oak Academy Work - Spring Term 1

				https://classroom.thenational.academy/lessons/find-areas-of-similar-shapes-given-corresponding-lengths-ccr6ae
				https://classroom.thenational.academy/lessons/find-volumes-of-similar-shapes-given-corresponding-lengths-70ukqt

7. Measures and compound measures				
4 to 5	6 to 7	8 to 9		
x	x		Choosing appropriate units for everyday use. Recognise the difference between metric and imperial units	http://corbettmaths.com/2013/12/28/metric-and-imperial-units-video-347/
x	x		Convert confidently between metric units of length (mm, cm, m, km)	https://classroom.thenational.academy/lessons/converting-between-metric-units-of-length-6cu3cc
x	x		Convert confidently between metric units of mass (ml, cl, kg, tonnes)	https://classroom.thenational.academy/lessons/converting-between-units-of-metric-mass-6ww38d
x	x	x	Convert confidently between metric units of volume (ml, cl, litres and cm ³)	https://classroom.thenational.academy/lessons/to-convert-units-of-volume-c9h3cr
x	x	x	Converting units of time	https://classroom.thenational.academy/lessons/converting-between-seconds-minutes-and-hours-74vkec
				https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-seconds-minutes-and-hours-6xk3ad
				https://classroom.thenational.academy/lessons/converting-between-units-of-time-6gvkjt
				https://classroom.thenational.academy/lessons/solving-problems-involving-converting-between-units-of-time-6crp8e

Year 8 Maths Oak Academy Work - Spring Term 1

x	x	x	Be able to convert between metric and imperial units when given a formula	http://corbettmaths.com/2014/01/18/metric-to-imperial-length/
				https://corbettmaths.com/wp-content/uploads/2013/02/metric-and-imperial-units-pdf1.pdf
x	x	x	Be able to convert between currencies when given an exchange rate	http://corbettmaths.com/2016/01/03/exchange-rates/
				https://corbettmaths.com/wp-content/uploads/2013/02/currency-pdf2.pdf
x	x	x	Reading and interpreting conversion graphs (link to previous real-life graphs)	https://classroom.thenational.academy/lessons/exchange-rates-with-graphs-6cv36d
x	x	x	Calculate speed, distance and time (link to previous real life graphs)	https://classroom.thenational.academy/lessons/calculating-speed-distance-and-time-6mrkje
	x	x	Converting units of area (link to similar shapes)	https://classroom.thenational.academy/lessons/decimals-and-measures-calculation-and-conversion-of-units-of-area-c4ukar
	x	x	Converting units of volume (link to similar shapes)	See convert confidently between metric units of volume
		x	Calculate density, mass, volume	https://classroom.thenational.academy/lessons/use-and-apply-the-density-formula-68u38t