

KS4 Learning Journey

GCSE Higher Tier – Year 10 Learning Cycle 4

Please watch the video on www.corbettmaths.com for each topic.

Statistics	Video number
Interpret and construct frequency tables	54
Interpret and construct bar charts, pictograms, and vertical line charts	147,148,161,162
Calculate the median, mean, mode and modal class	50-55
Calculate the spread of data involving range (including consideration of outliers) and including quartiles and inter-quartile range	57
Construct and interpret histograms	157-159
Construct and interpret cumulative frequency diagrams	153,154
Construct and interpret box plots	149,150

Congruence & Similarity	Video number
Understand and identify the conditions to define congruency e.g. SSS, SAS, ASA, RHS	67
Work out and then use the scale factor of similar shapes to find the length of a side	292
Apply knowledge of similar shapes in area and volume questions	293a,293b

Units	Video number
Recall and convert metric units of length, area, volume and capacity	349abc,350,351
Solve problems involving speed	299
Solve problems involving density and pressure.	384,385
Convert between compound units such as speed, density and pressure.	

Inequalities	Video number
Solve linear inequalities	178,179
Solve quadratic inequalities	378
Represent inequalities on a number line, using set notation and on a graph	177,180-182

Constructions	Video number
Construct triangles with given measurements	81-83
Construct a perpendicular bisector of a line segment	78
Construct a perpendicular to a given line from a given point	79
Construct a perpendicular to a given line at a given point	80
Construct an angle bisector	72
Solve loci problems	75-77

Maps & Bearings	Video number
Interpret and use maps and scale drawings	283
Construct scale drawings	283
Measure and draw bearings	26,27

KS4 Glossary
GCSE Higher Tier – Year 10 Learning Cycle 4

Statistics	
Cumulative Frequency	Cumulative frequency is a running total of frequencies.
Frequency	Frequency refers to the number of times something is recorded or happens.
Frequency Density	Frequency density is calculated in order to draw histograms. The height of the bar is the frequency density.
Median	The median is a type of average, calculate by ordering all the data, then choosing the middle one.
Modal	Using grouped data, the class with the highest frequency is the modal group.

Congruence & Similarity	
Similar	If one shape can become another using enlargement, then the shapes are similar.

Units	
Density	The degree of compactness of a substance, calculated by mass divided by volume.

Inequalities

Constructions	
Bisect	Divide into two exactly equal part
Loci	Loci is the plural of locus (a set of points which satisfy one or more conditions).

Maps & Bearings
