Maths- Y10F

MAGHULL HIGH SCHOOL - CURRICULUM MAP



-	b 9th Sept w/b 16th	Cont/b 22rd Cont			1	
TOPIC (S) Calculat	•	Sept w/b 23 rd Sept	w/b 30 th Sept	w/b 7 th Oct	w/b 14 th Oct	w/b 21st Oct
percent	ating with Calculating percentages Measures		Statistical measures	Statistical measures	Indices	Review and Revision

Knowledge & Skills development

Knowledge & Skills | Calculating with percentages

- solve problems involving percentage change, including:
- percentage increase/decrease problems
- original value problems
- simple interest, including in financial mathematics
- problems set in context
- using a multiplier

Measures

- apply and interpret limits of accuracy
- use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money etc.)
- use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate
- change freely between related standard units (eg time, length, area, volume/capacity, mass) and compound units (eg speed, rates of pay, prices, density, pressure) in numerical and algebraic contexts
- use compound units such as speed, rates of pay, unit pricing, density and pressure

Statistical Measures

- interpret, analyse and compare the distributions of data sets from univariate empirical distributions through:
 - appropriate measures of central tendency (median, mean, mode and modal class)
 - spread (range, including consideration of outliers)
- apply statistics to describe a population
- infer properties of populations or distributions from a sample, whilst knowing the limitations of sampling

Indices

- use positive integer powers and associated real roots:
 - square
 - cube
 - higher
- recognise powers of 2, 3, 4 and 5
- calculate with roots, and with integer indices

Assessment /	Topic assessments	Self-assessment	Homework	Formative teacher	Retrieval practice				
Feedback		sheets	(written and	assessment -	•				
Opportunities			online)	verbal					
Cultural Capital	Percentages with populations								
	Data handlin	g							
SMSC / Promoting	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising								
British Values	with pupils from different religious, ethnic and socio-economic backgrounds.								
(Democracy, Liberty, Rule of Law, Tolerance & Respect)									
Reading opportunities									
Key Vocabulary	Percentage Increase	Decrease Multiplier	Change Interest C	ompound Limits Bound	ds Pressure Force Area Density	Speed Mass Volume			
	Distance Time Rate	Data Bivariate Uni	variate Mode Mea	an Median Range Po	pulation Sample Integer Power	Root Index Indices			
Digital Literacy	Excel spreadsheet D	Desmos							
Careers	Finance, Engineering	g, Business, Medical.							