

Subject: **Maths** Year **7** Ability **Mixed**

Half Term 6 / weeks	Half-term 6 (2 weeks)	Half-term 6 (2 weeks)	(1 week)
Topic	Unit 13: Percentages	Unit 14: Handling data	Reteach and Retention
Topic overview Pupils will learn...	Students will link prior knowledge of fractions to be able to calculate with percentages	Students will explore different types of data and will be able to use and understand a range data handling skills	Focus on the process of reteach and retention, knitting together the learning in reaction to the assessments completed
Components	<ul style="list-style-type: none"> To understand percentage as a fractional operator with a denominator of 100 To be able to express a part of a whole as a percentage To be able to covert between fractions, decimals and percentages To be able to find the whole given a part and the percentage To be able to increase and decrease by a given percentage To be able to increase and decrease by a given percentage by using a multiplier To be able to calculate the original amount, given a part 	<ul style="list-style-type: none"> To be able to understand the difference between types of data To be able to construct and interpret: tables, bar charts, pictograms and line graphs To be able to read and interpret pie charts To be able to draw pie charts from raw data 	Staff complete a program of adaptive reteaching on specific topics based on the individual/class needs within their groups. Regular assessments are used to identify gaps in learning. Any gaps found are then addressed in lessons to help support learning and retention. Clear areas for improvement are monitored by individual staff and at a departmental level.
What pupils should already know (prior learning components)	Students should be confident at fractions and percentages conversions and be able to calculate fractions of amounts. Students should also should be able to perform all 4 basic operations	Students should be able to use a protractor to draw angles. This was covered in HT3 Y7.	All the half term content will have been covered by this point. Staff will use departmental tracking documents to analyse the gaps in learning from the most recent assessments and all previous assessments. The ability to structure and breakdown a problem-solving question as exemplified in the TFI questions throughout the course.
Transferrable knowledge (skills)	Percentages will be used in numerous multi step questions throughout the course. A grounding here is essential to accessing these questions. Percentage change will be used again in harder questions involving % change as well as with compound and simple interest.	Although these are the basic data handling ideas the skills to be able to understand these is a life skill. Within the course more difficult diagrams such as histograms and cumulative frequency. Ultimately these skills will be used throughout all data handling units up to and including KS5	This activity should serve to highlight and address areas of weakness in teaching and learning or retention. This early intervention to understand specific key areas for improvement or development. This should help to build confidence and improve students' ability to answer these and directly sequential problems.
Key vocabulary pupil will know and learn	Simplify, Express, Divide, Share, Calculate, Amount, Percentages, reverse, multiplier	Data, discrete, continuous, table, two-way, interpret, pictogram, key	
Assessment activities	Homework 14 Year 7 End of year assessment	Homework 15 Year 7 End of year assessment	AFL and adaptive teaching will continue to support staff to assess the address areas.
Resources available	Maths watch clips: 85, 86, 87, 88, 89, 164	Maths watch clips: 15, 16, 61, 63, 64, 65, 128, 129	Before any assessments are completed, revision and guidance materials are provided for students to assist in independent study.
Notes	The unit starts with students understanding that percentage means out of 100. Students' will then use this to calculate percentages of amounts and express these as decimals. To conclude this unit students will be able to increase and decrease a percentage without a calculator, and higher ability students extended to exploring multipliers. Fluency between FDP conversions is an important skill which links into ratio further through the maths curriculum.	Although the skills in this unit are relatively discreet with each diagram having its own methods an over-arching link should be used to discuss the use of data illustration and its role in wider life. Other charts and diagrams will be added to the portfolio later.	This is an important point in the curriculum plan that enables individual teachers to review the gaps in learning for the classes they teach. The half-termly assessments are used to track students' progress and enable teachers to react quickly to any gaps in knowledge and prepare students for the next assessment. The feedback and modelling of the exam answers enables students to pick up exam techniques and the ability to communicate effectively.

