Maths Curriculum Plan Overview

Year 7B

Term	Topic	Key Words	Learning	How can parents' best support
Autumn 1 (week 1-2) Topic: Local Community	**Baseline assessments**	● counting ● addition ● subtraction ● multiplication ● times tables ● number sentences ● application ● measure ● shape ● solve ● explain	● Students will complete a variety of number, shape space and measure, shape and use apply/reasoning baseline assessments in order to make judgements of starting points and inform subsequent planning and support.	● Please encourage your child to practice times tables at home ● Check out the free resources for maths here www.topmarks.co.uk ● Please share with school successes, barriers, opportunities and aspirations in terms of maths.
Autumn 1 (week 3+) Topic: Local Community	**Place value Counting Addition**	● place value ● counting on ● number patterns ● addition ● repeated ● 1:1 correspondence	● Students will complete a variety of activities using practical models and manipulatives with plentiful opportunity to use and apply their knowledge and understanding in practical ways. Learning is differentiated an each pupil will be supported to make progress from their starting points	● Please encourage your child to complete addition problems when out shopping e.g. *if 1 is 60p, how much would 3 be? Is it good value that 3 = £1? How much better off are we using the offer?*

Assessment:	White Rose Assessment arithmetic and reasoning			
Autumn 2 **Topic: Changes and Transformations**	**Subtraction Multiplication**	● function machines ● addition ● subtraction ● multiplication ● repeated ● equals ● number sentences	● Students will build on their knowledge and understanding of the number system and place value and build on and consolidate their understanding of subtraction and multiplication and repeated addition ● Students will be supported to generalise learning to mystery level by understanding the relationship between operations and inverse operations ● Students will learn about basic function machines	● Please encourage your child to complete subtraction and multiplication problems when out shopping e.g. *if one sweet is 10p, how many would 10 be? What change would I have from £5?*
Assessment:	White Rose Assessment			
Spring 1 **Topic: Charity**	**Data**	bar chart table ata tally total	● Students will learn about a variety of data collection methods including tally charts, bar charts and pie charts. Students will learn how to interpret data and construct their own charts to collect and record data. Students will build on skills with regards to the number system gained last term throughout this module. Students will also use these skills during a project with the Food Bank, collecting data about	Create a tally chart to record colours of the chart you spot on a journey - can you count in 5s to find the total? Have a go at some of these online resources: Tally Chart Games (softschools.com) Bar Charts - Mathsframe

			categories of food in order to identify gaps in our collection.	
	2D and 3D Shape	2D 3D faces sides edges vertices properties	• Students will revise 2D and 3 shapes and learn about their properties. • Students will build upon their knowledge and understanding of data and place shape in Venn and Carrol diagrams according to their properties • Students will discuss and compare shapes according to their properties and discuss sides, faces and vertices • Students will find 2D and 3D shapes in real life and generalise learning by looking at packaging in DT and food packaging with our work with the Food Bank	Discuss and label shapes in real life - boxes and packages at home, buildings and structures in the community!
Spring 2 Topic: Significant people and events in history	**Measure**	**standard non standard centimetre metre area perimeter litre mililitre capacity**	• Students will recap non standard and standard measure and build upon their knowledge, skills and understanding from their starting points. • Students will learn about capacity and use and apply this in this term's cookery sessions to practice to a level of mastery.	• Make connections with real life - why would we need to know the area or perimeter of something ? e.g. fencing for the garden or carpet for a bedroom! • Cook and bake ant home and use

			Students will also take part in a 'mocktail masterclass!'	measuring jugs and scales
			• Students will learn about area and perimeter and use knowledge and skills gained during the Autumn term to complete calculations	• Use a ruler or tape measure to find out the length of things around the home or garden - can your child be involved in a DIY project?
			White Rose Assessment reasoning	
Summer 1 **Topic: My World**	**Fractions**	fraction half quarter equivalent denominator numerator	Students will be introduced to fractions. We will use lots of visual models and real-world applications throughout students will learn about equivalent fractions through visual methods some students will apply their knowledge and understanding of the number system and add and subtract fractions and learn about the numerator and denominator	• The best way to learn about fractions is through food! Cut up a pizza and talk about the segments and compare their size to one another e.g. ½ = 2/4
			White Rose Assessment reasoning	
Summer 2 **Topic: sustainability**	**Time**	o'clock half past quarter past quarter to minute hour digital analogue clockwise anti clockwise	• Students will build on skills gained throughout the term in terms of the number system and functions when learning how tottel the time on a digital and analog ue clock	• Read the time throughout the day on a clock, watch and phone • Ask - what time will it be in one hour? talk about significant events during the day and times they

			● students will build on prior knowledge and understanding of time ● Some students will complete word and scenario based problems ● All students will have the opportunity to generalise their learning across the curriculum e.g. reading timetables in Life Skills and planning a journey	happen. bedtime, dinner time etc. ● Allow your child to plan a day out or journey using public transport, working out travel times!
White Rose Assessment reasoning				

Students will also complete 1 Lesson a week of Functional Maths Skills. These are the skills that we feel underpin the foundations of maths and therefore their ability to master learning.   These skills are explicitly taught alongside the maths curriculum and tailored to the needs of each pupil.

Term	Maths Skills Focus
Autumn 1 & 2	Times tables
Spring 1	Addition methods
Spring 2	Subtraction methods
Summer 1	Multiplication methods
Summer 2	Division methods