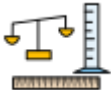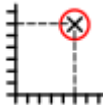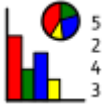| Donnington Wood CE Junior School	Our School Vision Our school is a community where each person is valued as a child of God. We are a Church of England school, inspired and guided by the life and teaching of Jesus. We work together to create a caring, friendly and safe school family, to enable the whole school community to flourish and each person reach their full God-given potential.	Our core values ==friendship== ==hope== ==perseverance==
	Our Motto "*The ones who plant and the ones who water work together as a team with the same purpose*." **1 Corinthians 3:8** We believe that with God's help when we all work as a TEAM - Together Everyone Achieves More.	

Progression of knowledge in Maths

Adapted from the NCETM

Key Concepts/Golden threads

Subject concepts act as coat-hangers to hook information onto and *'Golden threads'* that run throughout the curriculum. This allows the pupils to store this knowledge into the long term memory and to remember for longer. Developed on research by Jan Meyer and Ray Land (2003), the use of concepts in our curriculum are used to capture the most important essence (knowledge) of the subject. The same concepts are explored in every year group and students will gradually increase their understanding of them.

Number and place value	Four operations	Fractions, decimals and percentages	Measurement	Properties of shape	Position and direction	Statistics	Algebra	Ratio and proportion
HTU 3⑤4	+ ÷ X −	½ ◐					$a^2+b^2=c^2$	4:3

KEY CONCEPT: NUMBER AND PLACE VALUE

Strands	Y1	Y2	Y3	Y4	Y5	Y6
Counting	I can count to and across 100 from any number. I can count, read and write numbers to 100 in numerals.			I can count backwards through zero to include negative numbers.	I can count forwards and backwards through zero and interpret negative numbers in context.	I can use negative numbers in context and calculate across zero.
	I can count in multiples of two, fives and tens.	I can count in steps of 2, 3, 5 and 10s forwards and backwards, and recognise odd and even numbers.	I can count in steps of 4, 8, 50 and 100s.	I can count in multiples of 6, 7, 9, 25 and 1000.	I can count forwards or backwards in steps of powers of 10 up to 1,000,000.	
	I can identify one more or less than a number.		I can find 10 or 100 more than a number.	I can find 1000 more or less than a number.		
Comparing numbers	I can use the language of equal to, more than, less than (fewer), most, least.	I can compare and order numbers from 0 up to 100. I can use <, > and = symbols.	I can compare and order numbers up to 1000.	I can compare and order numbers beyond 1000 (up to 10,000).	I can order and compare numbers to at 1,000,000.	I can order and compare numbers to at 10,000,000.
Representing values	I can identify and represent numbers up to 100 using objects and pictorial representations.	I can identify, represent and estimate numbers up to 100 using different representations.	I can identify, represent and estimate numbers up to 1000 using different representations.	I can identify, represent and estimate numbers up to 10,000 using different representations.		
Read and write numbers	I can read and write numbers from 1 to 20 in numbers and words.	I can read and write numbers to at least 100 in numbers and words.	I can read and write numbers to at least 1000 in numbers and words.	I can read and write numbers to at least 10,000 in numbers and words.	I can read and write numbers to at least 1,000,000 in numbers and words.	I can read and write numbers to at least 1,000,000 in numbers and words.

Place Value		I can recognise the place value of each digit in a two-digit number.	I can recognise the place value of each digit in a three-digit number.	I can recognise the place value of each digit in a four-digit number.	I can recognise the place value in numbers up to at least 1,000,000.	I can recognise the place value in numbers up to at least 10,000,000.
Roman numerals			I can read Roman numerals from 1 to 12. *(Time target)*	I can read Roman numerals up to 100.	I can read Roman numerals up to 1000. I can recognise years written in Roman numerals.	
Rounding				I can round any number up to 10,000 to the nearest 10, 100 or 1000.	I can round any number up to 1,000,000 to the nearest 10, 100 or 1000, 10,000 and 100,000.	I can round any number up to 10,000,000 to a required degree of accuracy.
Problem Solving		I can use place value and number facts to solve problems.	I can solve number problems and practical problems that involve my number and place value objectives.	I can solve number problems and practical problems that involve my number and place value objectives.	I can solve number problems and practical problems that involve my number and place value objectives.	I can solve number problems and practical problems that involve my number and place value objectives.