TKAT Maths

Year 8 SOW 2021-2022

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Units:	**Shapes 1:** L1: Introduction Lesson/ expectations/ Faces, edges, vertices L3: Nets L4: Plans and elevations L4: Surface area of cubes and cuboids L5: Volume of cubes and cuboids L6: Mixed problems- SA/ Vol – cubes and cuboids	**Data 1:** **L1:** Pie Charts- drawing **L2:** Pie Charts- interpreting **L3:** Comparing Pie Charts **L4:** Using frequency tables- mean. **L5:** Using frequency tables- modal class. **L6:** Two-way tables- read and interpret. L7: Worded two tables- draw. L8: Comparing data L9: Misleading graphs	**Algebra 2:** **L1:** Substitution L2: One step equation L3: Two step equations- balancing method L4: Equations- worded problems	**Number 3 continued:** **L1:** Percentage of amounts **L2:** Percentage increase/ decrease (without calc) **L3:** Percentage increase/ decrease (with calc) **L4:** Reverse Percentages **L5:** Proportions and Percentages	**Shapes 3:** **L1:** Circumference of circles **L2:** Circumference of quarter, semi circles + problems **L3:** Area of circles **L4:** Area of quarter, semi circles + problems **L5:** Area of compound shapes incl. circles	**Shapes 4:** **L1:** Theorem of Pythagoras- finding the longest side. L2: Theorem of Pythagoras- finding the shorter side. L3: Intro to coordinates (all 4 quadrants) including reading. L4: Plot and Find co-ordinates L5: Find the midpoint of a line segment.
		Number 2: **L1:** Place value calculations and x decimals **L2:** Place value calculations and / decimals **L3:** Ordering decimals **L4:** Decimals and rounding **L5:** Decimals and money calculations **L6:** Decimals and time calculations **L7:** Written methods of addition and subtraction	**Shapes 2:** **L1:** Classifying polygons L2: Interior angles in a polygon L3: Exterior angles in a polygon L4/5: Solving geometric problems- involving polygons	**Data 2:** **L1:** Mutually exclusive events L2: Experimental and theoretical probability L3: Sample Space diagrams L4: Venn diagrams- set notation. L5: Venn diagrams- 2 variable	**Number 5:** **L1:** Fractions of amounts **L2:** Converting- Mixed numbers **L3:** Add/ subtract fractions **L4:** Add/ Subtract- Mixed numbers **L5:** Multiply - Mixed numbers **L6:** Divide - Mixed numbers **L7/8:** Worded - Mixed numbers	**Data 3:** L1: Scatter diagrams- plot, read, correlation. L2: Scatter diagrams- LOBF and estimation **L3:** Stem and Leaf- draw and interpret **L4:** Back to Back Stem and Leaf
	Number 1: **L1:** Methods of multiplying decimals L2: Methods of division decimals		**Number 3:** **L1:** Convert decimals to fractions and % **L2:** Convert fractions and % to decimals.	**Number 4:** **L1:** Finding HCF/LCM- listing **L2:** Worded HCF and LCM questions		**Shapes 5:** **L1:** Transformation- reflect and symmetry **L2:** Transformation- enlargement (ordinary)

	L3: Integer Rules **L4:** Factors, multiples, and primes L5: Prime factor trees L6: Estimation and Sig Figs L7: Power roots and brackets		**L3:** Ordering FDP **L4:** Simplifying ratio (incl. equivalent) **L5:** Sharing ratios **L6:** Ratio and proportion and fractions	**L3/4:** Venn diagrams- HCF and LCM		**L3:** Transformation- enlargement (neg sf) **L4:** Transformation- translate **L5:** Mixed transformations **L6:** Surface area of prisms **L7:** Volume of prisms
	Algebra 1: L1: Forming expressions L2: Index Laws- add / subtract powers. L3: Index Laws- power to a power/ mixed practice L4: Simplifying expressions- Indices (with brackets)					