Year 7 Maths – Spring Term

	Wider Learning:	Prior learning:	Key vocabulary:	
Intent	Expressions and Equations allows students to create and solve problems of their own and recognise symbols in replacement of numbers.	Students may have seen very basic letter/symbol replacement during KS2 but this is likely to have minimal depth of understanding by the end of Year 6	2. Expressions 6. 3. Constant 7.	Expand Factorise Brackets Simplify
	Plotting Coordinates will progress students understanding of map reading and grids which will help within subjects other than maths.	Students will have seen basic 1 st quadrant coordinates during KS2 and will recognise coordinate terminology.	10. Coordinate 14 11. Horizontal 15	B. Axis I. Plot 5. Negative 6. Origin
	Perimeter and Area allows students to grow their spatial understanding.	Students will have covered the difference between area and perimeter in rectangles and squares during KS2.	18. Area 22 19. Trapezium 23	. Rectilinear 2. Squared 3. Base 4. Perpendicular Height
	The big questions 1. What use does algebra have in the real world? 2. How can we be certain we have "fully simplified"? 3. What impact would transposing coordinates have when plotting a shape? 4. Does a larger area always mea 5. Can two DIFFERENT shapes have the same perimeter? 5. Con two DIFFERENT shapes have the same perimeter? 6. Does halving a shape halve bot perimeter?			ave the shape are and
	Order of learning			Differentiation
Implement	1. Writing sentences as expressions. 2. Recognising: Coefficient, Term, Constant 3. Recognising: Equation, Expressions, Identity, Inequality 4. Adding & Subtracting Terms 5. Indice Laws 6. Multiplying & Dividing Terms 7. Expanding Single Brackets 8. Factorising Single Brackets 9. Plotting in the 1st quadrant 10. Plotting in all 4 quadrants 11. Plotting non-integer coordinates 12. Plotting horizontal and vertical lines 13. Plotting equations 14. Problem solving shapes in coordinates 15. Perimeter of shapes. 16. Perimeter of composite shapes. 17. Finding missing sides using perimeter. 18. Area of quadrilaterals and triangles. 19. Area of composite rectilinear shapes. 20. Area of trapezium. 21. Finding missing sides using area.			Differentiation G&T: Stretch questions for all topics as well as problem solving style questions. Disadvantaged: Equipment available in classroom for students arriving unprepared. SEND: Manipulatives available for students in certain context including number lines and counters. EAL: Translations of keywords where required and minimal use of unnecessary words throughout,
ct	Assessment and homework 40 mark assessment at the end of each topic covering all relevant areas and allowing students to check their understanding of the topic covered. Homework Weekly homework on Sparx Maths covering each of the sections taught during the previous week.			Feedback Verbal feedback during assessment week as well as self- correction during feedback lesson.
Impact	Where will this be revisited?			
<u>=</u>	Expressions & Equations will be revisited during Linear Equations in Year 8 and again in Expressions & Formulae during Year 9.			
Plotting Coordinates will be revisited during Straight Line Graphs in Year 8 and in Graphical Represen				ation during Year 9.

Perimeter and Area will be revisited during Perimeter, Area and Volume during Year 9.