ALGEBRA 1 (HIGHER) REVISION PLANNER

Learning objectives (*We Are Learning To*...)	**Grade**	**Can I do it?**
1. Pupils can recognise number patterns and find term to term rules and position to term rules for linear sequences	**D**(Substitute numbers into nth term rule) **C**(nth term linear sequence)	☹ 😐 ☺
2. Pupils can find the nth term of quadratic sequences by spotting a link between x^2 and their sequence and by more complex mathematical methods	**B**(Find nth term of a quadratic sequence)	☹ 😐 ☺
3. Pupils generate straight line graphs from an equation in the form y=mx+c. Pupils find the gradient of a straight line and can use the gradient and intercept to write the equation of a straight line. Pupils can use their linear graphs to represent inequalities.	**D**(Straight line graph from equation) **C**(Find gradient of line), **C**(Use gradient and intercept to draw graphs y=mx+c)	☹ 😐 ☺
4. Plotting quadratic graphs and using them and a linear graph to solve equations	**C**(Draw Quadratic graphs from a table), **B**(Solve Quadratic equation from a graph)	☹ 😐 ☺
5. Pupils can generate a table of values for cubic, and reciprocal graphs. They can identify graphs from their shape.	**B**(Plot cubic graphs from a table), **B**(Recognise the shape of graphs), **A**(Draw reciprocal and exponential graphs)	☹ 😐 ☺
6. Draw and interpret travel (Distance/Time) graphs. Use conversion graphs to change currency, weights and other practical graphs	**F**(Read values from a conversion graph),**E**(Use conversion graphs to solve problems)**E** (Read distance/time from travel graph),**C**(interpret graph including distance/speed)	☹ 😐 ☺
7. Substitute positive and negative numbers into simple formulae in real life and mathematical situations	**D** (Substitute numbers into expressions)	☹ 😐 ☺
8. Factorise a linear expression and multiply out single brackets. Collect terms together to simplify.	**D** (factorise simple linear expressions) **C**(Expand and simplify expressions)	☹ 😐 ☺
9. Multiplying out a pair of brackets using either the grid method or FOIL	**C**(Expand a pair of linear brackets to get a quadratic)	☹ 😐 ☺
10. Factorise a quadratic starting x^2	**B**(factorise a quadratic in form x^2+bx+c)	☹ 😐 ☺
11. Completing the square.	**A*** (Solve a quadratic equation by completing the square)	☹ 😐 ☺