| | Stage 8 | |
|----------|-------------------------|--|
| | Topics | |
| | Number System 1 | Recall prime numbers up to 50 |
| | | Know the meaning of 'highest common factor' and 'lowest common multiple' |
| | | Write as a product of primesPrime factor Decomposition |
| | | Write large / cmall number in standard form |
| | | Deund te env significent figures lies significent figure for estimation |
| | | Round to any significant figures. Use significant figures for estimation |
| <u> </u> | Algerba 1 | know now to write products algebraically e.g.3 x a x a x b = 3a-b |
| E | | Factorise an expression by taking out common factors (single bracket) |
| ٩ ٩ | | Substitute positive and negative numbers into formulae |
| Ę | | Change the subject of a formula when a two steps are required |
| al | Calculating S8 | Add / subt / mult / divide all integers, including positive and negative integers. |
| Т | | Round numbers to a given degree |
| | | Use the order of operations, including brackets, powers and roots |
| | | Substitute negative numbers into expressions |
| | | efficient use of your calculator from above |
| | Pythagoras 1 | Apply Pythagroas' rule, 2D only |
| | | Solve basic Problems in volving Pythagoras |
| | | |
| | Geometry 1 S8 | Identify alternate, corresponding angles |
| | | |
| | | Use the fact that angles in a triangle total 180° to work out the total of the angles in any polygon |
| | | Establish the size of an interior and exterior angle in a regular polygon |
| | Sequences 1 S8 | Generate a sequence from a term-to-term rule |
| | · | Understand the meaning of a position-to-term rule |
| | | Use a position-to-term rule to generate a sequence |
| | | Find the position-to-term rule for a given sequence |
| | | |
| n 2 | | Use algebra to describe the position-to-term rule of a linear sequence (the nth term) |
| L L | | Use the nth term of a sequence to deduce if a given number is in a sequence |
| Τe | Ratio and proportion S8 | simplify ratios; share in a given ration |
| ÷ | | Find fractions / percentages from a ratio. |
| Ча | | Use Unitary method for direct proportion and use to solve basic problems |
| - | | Perpendicular bisector of a line; Bisect an angle |
| | | Construct SSS triangle |
| | | Construct SAS and ASA triangles using rule and protractor |
| | Constructions 1 S8 | Simple Loci problems |
| Ì | FDP 1 S8 | Write a fraction in its lowest terms by cancelling common factors |
| | | Identify when a fraction can be scaled to tenths or hundredths |
| | | Convert a fraction to a decimal by scaling (when possible) |
| | | Use a calculator to change any fraction to a decimal |
| | | convert between fraction, decimal and percentage |
| | | |
| | FDP 2 S8 | Identify the multiplier for a percentage increase or decrease when the percentage is greater than |
| | 101 200 | |
| | | use the mulitnier to calculate percentage change |
| | | Solve problems involving percentage change |
| ŝ | Probability S8 | Becord systematically outcomes of 2 mutually exc. events: including lists, possibility space diagram |
| З | Frobability 58 | P(ic not) = 1 - P(ic) |
| er | | $r_{13} r_{10} = 1 - r_{13}$ |
| Ţ | | Analyse possibilities using tables and "Ergquency Trace" (Different from Trace diago) |
| ali | Area and Valuma 1.69 | Calculate area of Transmiss Devalle lagrance Triangles outfree area of sub-side |
| I | Area and volume 1.58 | calculate area of interprete of eireles (including coministrates and supprete) area of error of the |
| | | area and circumference of circles (including semi circles and quadrants), area of composite |
| | | shapes. |
| | | volume of cuboids and prisms. |
| | | Ext: Volume and surface area of cylinders |
| - | | |
| | Statistics 1 S8 | Interpret a grouped frequency table for continuous data |
| | | Construct a grouped frequency table for continuous data |
| | | Interpret histograms for grouped data with equal class intervals |

| | | Plot a scatter diagram of bivariate data; |
|-------------|---|--|
| | | Interpret a scatter diagram using understanding of correlation; |
| | | Draw and Interpret a Line of best Fit |
| | | Draw and Interpret Pie Charts |
| 4 | | Draw and Interpret 2 way tables |
| 3 | Measures s8 | Calculate speed from distance and time. |
| L S | | Appreciate units of: |
| Ĕ | | - Speed |
| alf | | - Distance |
| Η̈́Ξ | | - Time |
| | Coordinates and Graphs 1 S8 | Plot points in all 4 guadrants |
| | | Plot equations of the form: $v = mx + c$. $ax+by=c$ |
| | Term 4 | Find the gradient and v intercept of a line given m and c: |
| | | Find the equation of the line give the graph |
| | | Find the midpoint of any 2 points on a coordinate axis. (Midpoint rule) |
| | | Find the Distance between any 2 points in the coordinate plane |
| | | Sketch a simple quadratic graph |
| | | |
| | Algebra 2 S8 | Differentiate between: Formula, Equation, Expression, Identity |
| | | Solve Linear Equations with; |
| | Term 5 | - x on both sides |
| | | - brackets |
| Ь | | - solutions which are negatives and/or fractions |
| ε | | Use Trial and Improvement to solve simple Quadratics |
| Ъ | | Be able to check solutions by substitution |
| Ĕ | | Rearrange simple formulae where the unknown subject appears once. |
| alf | FDP3 S8 | Order Fractions And decimals by converting into a similar form. |
| Ξ | | Understand the equivalence of simple Algebraic Fractions |
| | Term 5 | Distinguish between Fractions that have only Drime Factors of 2 and 5 in the denominator |
| | | /Terminating Decimals) and other Erections (Decurring Decimals) |
| | | |
| | | Solve Droblems that require exact calculation with Fractions |
| | | |
| | | |
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