|  |  |  |  |
| --- | --- | --- | --- |
|  | RED | AMBER | GREEN |
| **NUMBER** |  |  |  |
| Arithmetic | Money  |  |  |  |
| Four operations  |  |  |  |
| Negative number  |  |  |  |
| Fractions  | Order fractions, decimals, percentages |  |  |  |
| Fraction of an amount |  |  |  |
| One amount as a fraction of another |  |  |  |
| Fraction arithmetic  |  |  |  |
| Equivalent fractions  |  |  |  |
| Properties  | Place value, Order integers  |  |  |  |
| Multiples, Factors, Lowest Common Multiple Product of prime factors |  |  |  |
| Powers and roots  | Square root  |  |  |  |
| Standard Form  | Conversion |  |  |  |
|  | Calculation  |  |  |  |
| Approximation and estimation  | Rounding |  |  |  |
| Estimation  |  |  |  |
| Error interval  |  |  |  |
| Other  | Mathematical symbols  |  |  |  |
| Calculator use |  |  |  |
| **Algebra**  |  |  |  |
| Manipulation  | Simplification |  |  |  |
| Expansion of Brackets |  |  |  |
| Factorisation |  |  |  |
| Substitute values  |  |  |  |
| Change subject of a formula  |  |  |  |
| Forming an expression  |  |  |  |
| Laws of indices  |  |  |  |
| Equations and inequalities  | Linear equation |  |  |  |
| Linear inequality  |  |  |  |
| Linear simultaneous equations  |  |  |  |
| Form an equation  |  |  |  |
| Quadratic equation  |  |  |  |
| Graphs | Coordinates  |  |  |  |
| Straight line graph  |  |  |  |
| Quadratic graph  |  |  |  |
| Functions  | Number machines  |  |  |  |
|  | RED | AMBER | GREEN |
| Sequences  | Linear Sequences  |  |  |  |
|  |  |  |  |  |
| **Ratio, proportion and rates of change**  |  |  |  |
| Conversion  | Length, mass, time, area  |  |  |  |
| Compound units  |  |  |  |
| Scale drawing |  |  |  |
| Percentages  | Percentage to fraction |  |  |  |
| Decimal to percentage  |  |  |  |
| Percentage of an amount  |  |  |  |
| Percentage increase/decrease  |  |  |  |
| Percentage profit |  |  |  |
| One quantity as a percentage of another |  |  |  |
| Depreciation |  |  |  |
| Reverse percentage |  |  |  |
| Ratio  | Write as a ratio |  |  |  |
| Share in a ratio |  |  |  |
| Use of ratio  |  |  |  |
| 1 : *n* form |  |  |  |
| Proportion | Direct proportion  |  |  |  |
| Currency conversion |  |  |  |
| Compound Measures | SpeedAverage speed |  |  |  |
| Density |  |  |  |
| **Geometry and measures** |  |  |  |
| Shape  | Triangle properties |  |  |  |
| Quadrilaterals |  |  |  |
| Polygons |  |  |  |
| Triangular prism |  |  |  |
| Circles  |  |  |  |
| Parallel and perpendicular lines  |  |  |  |
| Reflection |  |  |  |
| Transformations |  |  |  |
| Plan and elevation |  |  |  |
| Angles  | Angles in a triangle  |  |  |  |
| Vertically opposite angles |  |  |  |
| Angle properties of parallel lines |  |  |  |
| Angles in a polygon |  |  |  |
|  | Bearings |  |  |  |
|  |  | RED | AMBER | GREEN |
| Length, area and volume | Area of a rectangle |  |  |  |
| Area of a triangle |  |  |  |
| Area of a trapezium  |  |  |  |
| Volume of a cube  |  |  |  |
| Volume of a cylinder  |  |  |  |
| Pythagoras’s Theorem and Trigonometry | Pythagoras’s Theorem  |  |  |  |
| Exact trigonometric values |  |  |  |
| **Probability**  |  |  |  |
| Probability  | Probability scale  |  |  |  |
| Probability  |  |  |  |
| Frequency tree |  |  |  |
| Tree diagram  |  |  |  |
| Combined events |  |  |  |
| **Statistics**  |  |  |  |
| Diagrams | Pictogram  |  |  |  |
| Bar chart |  |  |  |
| Interpret graph |  |  |  |
| Two-way table |  |  |  |
| Frequency table |  |  |  |
| Stem and leaf diagram |  |  |  |
| Frequency polygon |  |  |  |
| Measures  | Mode, median, mean, range |  |  |  |
| Population  | Comparison of distributions  |  |  |  |