|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | 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 | Speed  Average 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 |  |  |  |