# Arithmetic Progression

| | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| **Addition and Subtraction** | One more/one less<br><br>Add and subtract one digit and two-digit numbers to 20<br><br>Solve missing number problems e.g., 7 = ? – 2<br><br>Represent and use number bonds and related subtraction facts within 20 | TO +/- O<br><br>TO +/- 10s<br><br>TO +/- TO<br><br>O+O+O<br><br>Add/subtract facts to 20<br><br>Related facts to 100 | Up to HTO +/- HTO<br>+/- Multiples of 10<br>+/- 10 ,100 | +/- THTO + THTO<br>TO.TH +/- TO.TH<br>+/- 10, 100, 1000 | +/- 10, 100, 1000, 10000<br>+/- TTHTO and THTO<br>+/- decimals to 2 places | + / - whole numbers and decimals |
| **Multiplication** | solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher | calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs | TO x O<br>O x O x O | HTO x O<br>O x O x O<br>x 10 x 100 | X 10 100 1000<br>Up to THTO x O | Up to THTO x O<br>Up to THTO x TO<br>Decimals x O |
| **Division** | | | HTO ÷ O<br>(2,5,3,4,8) | ÷ 10 ÷100<br><br>Up to HTO ÷ O | ÷ 10 100 1000<br><br>THTO ÷ O | THTO ÷ O<br>THTO ÷ TO |
| **Multiplication and related division facts** | Count in 2s, 5s and 10s | x2 x5 x10<br><br>÷2 ÷5 ÷10 | X3 x4 x8 x10<br><br>÷ 3 ÷ 4 ÷ 8 ÷ 10 | x6 x9 x 7 x 12 x11<br><br>÷6 ÷ 9 ÷ 7 ÷12 ÷11 | Squared numbers<br>Cubed Numbers<br>Using division facts for all tables | Using known multiplication facts<br>Using known division facts |

| Fractions | recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity<br><br>recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity | recognise, find, name and write<br><br>fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity | ¼ of whole<br>¾ of whole<br>+/- fractions with the same denominator<br>Compliments to 1<br>Fractions of amounts | +/- fractions with the same denominator<br>Fractions of amounts<br>Compliments to 1 | Complements to 1<br><br>+/- fractions with different denominators (multiples)<br><br>+/- mixed fractions<br><br>Fractions of amounts<br><br>Fraction x Whole | Fractions of amounts<br><br>Percentages of amounts<br><br>Whole Numbers x Percentages<br><br>Complements to 1<br><br>Fraction x Fraction<br><br>+/- Mixed Numbers with different denominators<br><br>Divide fraction by whole number |
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| **All Areas** | Write numbers from 1-20 in numerals and words | Missing Numbers<br>Balancing Problems | Missing Numbers<br>Balancing Problems | Missing Numbers<br>Balancing Problems | Missing Numbers<br>Balancing Problems | Missing Numbers<br>Balancing Problems<br>BODMAS |