# Maths Curriculum Assessment Grid for Years 1 to 6

## Fractions (including decimals, percentages, ratio and proportion)

| | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 |
|---|---|---|---|---|---|---|
| **Fractions** | Recognise, find and name ½ of an object, shape or quantity | Recognise, find, name and write ⅓, ¼, 2/4, ¾ of length, shape and sets of objects or quantities | Recognise, write and find fractions of objects and numbers where the fraction has a small denominator | Connect fractions on a number line to numbers and measures<br><br>Simplify fractions where appropriate | Write mathematical statements >1 as a mixed number e.g. ⅖ + ⅘ = 6/5 = 1 ⅕ | Use common factors to simplify fractions. Use common multiples to express fractions in the same denomination |
| | Recognise, find and name ¼ of an object, shape or quantity | Know simple equivalent fractions e.g ½ = 2/4 | Compare and order unit fractions with the same denominator<br><br>Recognise and show (using diagrams) equivalent fractions with small denominators | Identify, name and write equivalent fractions of a given fraction including 1/10 and 1/100 | Compare and order fractions whose denominators are all multiples of the same number | Compare and order fractions including fractions >1 |
| | Know ½ and ¼ as operators | Use fractions as operators e.g ½ of 6 = 3 | Know that tenths arise by ÷ by 10 | Recognise that hundredths arise when ÷ an object by 100 and that tenths arise by ÷ by 10 | Recognise mixed numbers and improper fractions and convert from one to another | Associate a fraction with ÷ to calculate decimal fraction equivalents e.g. 0.375 = 3/8 |
| | | | Recognise the relationship between denominator and operator | Practice counting using simple fractions and decimal fractions, forwards and backwards | | |
| | | Count in fractions up to 10 e.g. 1, 1 ½, 2 | Count forwards and backwards in tenths | Count up and down in hundredths | | |
| | | | Add and subtract fractions with the same denominator e.g. 5/7 + 1/7 = 6/7 | Add and subtract fractions with the same denominator up to 1 whole | Add and subtract fractions with the same denominator beyond 1 whole and related fractions | Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions |
| | | | | Solve problems involving increasingly harder fractions to calculate and divide quantities including non-unit fractions up to 1 whole | Multiply proper fractions and mixed numbers by whole numbers supported by materials and diagrams | Multiply simple pairs of proper fractions writing the answer in its simplest form e.g ¼ × ½ = 1/8 |
| | | | | | | Divide proper fractions by whole numbers e.g ⅓ ÷ 2 = ⅙ |
| **Decimals** | | | | Recognise and write decimal equivalents of any number of tenths or hundredths | Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | Recall and use equivalences between simple fractions, decimals and % |
| | | | | Recognise and write decimal equivalents to ¼, ½ and 3/4 . | Read and write decimal numbers as fractions e.g. 0.71 = 71/100 | |
| | | | | Round numbers with 1 decimal place to the nearest whole | Round decimals with 2 d.p. to the nearest whole and the nearest 1 d.p. | Round decimals to 3 decimal places |
| | | | | Compare numbers with the same number of decimal places up to 2 d.p. | Read, write, order and compare numbers with up to 3 d.p. | Identify the value of each digit in numbers up to 3 d.p. |
| | | | | Find the effect of dividing a number with 1 or 2 d.p. by 10 and 100, identifying the value of the digits as U, tenths or hundredths | Multiply and divide numbers by 10, and 100 giving the answers with up to 3 d.p. | Multiply and divide numbers by 10, 100 and 1000 giving the answers with up to 3 d.p. |
| | | | | | | Multiply U.txU and U.thxU or TU |
| **%** | | | | | Recognise the % symbol and understand it relates to the number of parts per 100 | Solve problems involving the calculation of percentages and the use of percentages for comparison |
| | | | | | Write % as fractions with denominators of 100 and as a decimal | |
| **Ratio and proportion** | | | | | | Solving problems involving the relative sizes of two quantities where missing values can be found using integer multiplication and division facts |
| | | | | | | Solve problems involving similar shapes where the scale factor is known r can be found |
| | | | | | | Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples |