### Mathematics Assessment Framework

#### Number and Algebra

- **Indices and powers**: Use index laws with integer indices to simplify expressional expressions.
- **Ordering and comparing**: Order and compare integers without using a number line.
- **Decimals**: Use the distributive property of multiplication for two-digit and three-digit numbers.
- **Fractions**: Use the distributive property of multiplication for two-digit and three-digit numbers.
- **Multiples and factors**: Recognize common multiples and factors of positive whole numbers.
- **Equivalent fractions**: Recognize, simplify, and compare fractions such as square numbers.
- **Equivalent decimals**: Recognize and convert between decimals and fractions.
- **Rounding to significant figures**: Rounding to given significant figures.
- **Scientific notation (standard form)**: Calculating powers of 10 and converting ordinary numbers to scientific notation (standard form).
- **Percentages**: Calculating percentages of positive whole numbers.
- **Ratios**: Calculating ratios of positive whole numbers.

#### Measurement

- **Angles**: Identifying angles of the same size.
- **Area and volume (capacity)**: Calculating area, volume, and capacity of prisms (including cubes).
- **Mass, length, and time intervals**: Identifying measures of mass, length, and time intervals.
- **Cones, pyramids, and prisms**: Calculating volumes of cones, pyramids, and prisms.
- **Rectangles**: Calculating areas and perimeters of rectangles.
- **Angles and congruence**: Identifying angles with reflection symmetry.
- **Angles and similarity**: Identifying angles with reflection symmetry.
- **Composition of shapes**: Identifying nets, plans, and elevations of 3D figures and shapes.
- **Pythagoras**: Using Pythagoras' theorem to solve simple problems.
- **Squares and rectangles**: Calculating areas and perimeters of squares and rectangles.
- **Reflections, rotations, translations & enlargements**: Identifying simple combinations of reflections, rotations, translations, and enlargements.

#### Geometry

- **Lines, angles, and congruence**: Identifying and measuring lines, angles, and congruence of shapes.
- **Reflections, rotations, translations & enlargements**: Identifying simple combinations of reflections, rotations, translations, and enlargements.
- **Squares and rectangles**: Calculating areas and perimeters of squares and rectangles.
- **Pythagoras**: Using Pythagoras' theorem to solve simple problems.
- **Squares and rectangles**: Calculating areas and perimeters of squares and rectangles.

#### Chance

- **Probability**: Calculating probabilities of simple events.
- **Simulation**: Using simulation to determine experimental probabilities.
- **Estimation**: Estimating probabilities of simple events.
- **Expectation**: Calculating expectations of simple events.
- **Solving problems**: Solving problems involving chance.

#### Data

- **Median and mode**: Finding the median and mode of a set of data.
- **Range**: Calculating the range of a set of data.
- **Graphs**: Using graphs to display data.
- **Averages and ranges**: Using averages and ranges to describe data.
- **Median, mode, and range**: Finding the median, mode, and range of a set of data.
- **Outliers**: Identifying outliers in a set of data.
- **Statistical measures**: Using statistical measures to describe data.
- **Extrapolation and interpolation**: Extrapolating and interpolating data.
- **Percentiles**: Calculating percentiles of a set of data.
- **Graphs**: Using graphs to display data.
- **Tables**: Using tables to display data.
- **Estimating**: Estimating the mean of a set of data.

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