Year 6 English

Below are the key skills that year 6 pupils need to achieve in order to be working at national expectations.

Reading
These skills need to be achieved across a range of book types and at the appropriate level of text

- Read fluently with intonation, expression, appropriate pace and use of pauses to entertain and maintain interest

- Try to notice mistakes in reading when reading higher level texts and sometimes correct them because the text doesn't make sense

- Scan text to find key words and phrases

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- Summarise the key points of a paragraph

- Summarise the main ideas drawn from more than one paragraph

- Explore the meaning of words in context and ask about the meanings of unknown words

- Make inferences such as inferring characters' feelings, thoughts and motives from their actions and sometimes find evidence to support this

- Sometimes give reasoned justifications for views based on evidence from the text

- Identify and discuss themes and conventions in a range of writing

- Find, record and present information from non-fiction texts

Writing

- Spell an increasing range of homophones

- Use the first 3 letters of a word to check the spelling and meaning in a dictionary and when using a thesaurus

- Write legibly, fluently and with increasing speed by joining letters appropriately

- Expanded noun phrases to convey information concisely

- Use relative clauses beginning with who, which, where, whose

- Use commas in writing to make meaning clear alongside all punctuation expected in earlier years

- Use a wide range of devices to link ideas within paragraphs

- The connections within and between paragraphs are generally maintained through the use of ongoing references e.g. pronouns, adverbials and connecting words and phrases, consistent use of tense

- Identify the audience and purpose of writing and choose the appropriate form

- In stories settings, characters and atmospheres are described, using dialogue to inform the characterisation and to move action forward

Evington Valley Primary School
Caring and Learning Together

National Curriculum
Age Related Expectations
for Year 6 in
Mathematics and English

Year 6 Maths

Below are the key skills that year 6 pupils need to achieve in order to be working at national expectations.

Number and Place Value

- Read, write, order and compare numbers to 10,000,000 and know value of each digit
- Round any whole number to any degree of accuracy
- Recognise binary numbers to 15 (1111) and convert between binary and decimal numbers

Addition, Subtraction, Multiplication and Division

- Understand and use negative integers
- Multiply multi-digit numbers up to 4 digits by a two-digit whole number
- Divide numbers up to 4 digits by a two-digit whole number and recognise remainders as whole number remainders, fractions or by rounding
- Perform mental calculations, including with mixed operations and large numbers
- Use estimation to check answers and determine, in the context of a problem, whether an answer should be rounded, or written as a fraction or decimal
- Carry out combined calculations involving the four operations accurately and state the order of the operations
- Solve word problems involving the four operations
- Identify common factors, common multiples and prime numbers

Fractions, Decimals and Percentages

- Add and subtract mixed numbers and fractions with different denominators
- Multiply simple unit fractions and pairs of proper fractions, writing the answer in its simplest form e.g. $1/4 \times 1/2 = 1/8$
- Divide proper fractions by whole numbers e.g. $1/3 \div 2 = 1/6$
- Associate a fraction with division to calculate decimal fraction equivalents e.g. 0.375 for a simple fraction 3/8
- Identify the value of each digit to three decimal places and multiply and divide numbers up to three decimal places by 10, 100 and 1000
- Multiply and divide a number with up to two decimal places by a 1-digit and 2-digit whole numbers
- Use percentages for comparison and calculate percentages of whole numbers, e.g. 15% of 360
- Recall and use equivalences between simple fractions, decimals and percentages

Ratio and Proportion

- Use ratio to show the relative sizes of two quantities
- Recognise equivalent ratios and reduce a given ratio to its lowest form
- Recognise and use division in the context of fractions, percentages and ratio

Year 6 Maths

Algebra

- Use simple formulae expressed in words
- Generate and describe linear number sequences including those involving negative and decimal numbers, and proper fractions, e.g. 1.4, 1.1, 0.8
- Solve linear missing number problems, including those involving decimals and fractions, and find pairs of numbers that satisfy number sentences involving two unknowns

Geometry and Measures

- Recognise, describe and build simple 3-D shapes, including using nets
- Compare and classify shapes based on their properties and sizes
- Find unknown angles in triangles, quadrilaterals and regular polygons
- Describe properties of common 3D shapes and identify parallel planes and symmetry
- Illustrate and name parts of circles, including radius, diameter and circumference
- Estimate sizes of angles
- Find unknown angles involving angles at a point, on a straight line, in a triangle (180°), in a quadrilateral (360°) and vertically opposite

Measures

- Use decimal notation to three decimal places to solve calculations and conversion of units of measure
- Use , read, write and convert between standard units, converting measurements of length, mass, volume and time between large and smaller units
- Recognise that shapes with the same areas can have different perimeters and vice-versa
- Recognise when it is necessary to use formulae for area and volume of shapes
- Calculate the area of parallelograms and triangles
- Calculate, estimate and compare volumes of cubes and cuboids using standard units including cubic centimetres (cm^3) and cubic metres (m^3) and extending to mm^3 and Km^3

Data

- Draw, read and interpret line graphs and pie charts and use these to solve problems
- Use and interpret averages including mean, medium and mode

Probability

- Use the language associated with probability such as certain, equally likely, unlikely, impossible and use this in on-going work