Heathlands Primary Academy Curriculum Map

Year 6 (Summer 2)

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| **English**Over the course of this academic year the children will be working towards the following objectives. | **Maths**Over the course of this half term the children will be working towards the following objectives. |
| **Reading*** **read age-appropriate books with confidence and fluency (including whole novels)**
* **read aloud with intonation that shows understanding**
* **work out the meaning of words from the context**
* **explain and discuss their understanding of what they have read** maintaining a focus on the topic and using notes where necessary**, and justify this with evidence**
* **draw on inferences** such as characters’ feelings, thoughts and motives from their actions **and justify these with evidence**
* **predict what might happen from details stated and implied**
* locate and **retrieve information from non-fiction** and draw on a variety of sources in order to research a topic, record and present this information
* distinguish between statements of fact and opinion
* understand how organisational structures are used to contribute to meaning and how this impacts on the reader
* **summarise main ideas, identifying key details and using quotations for illustration**
* identify and discuss themes and conventions
* appreciate shades of meaning
* **evaluate how authors use language, including figurative language, considering the impact on the reader**
* **make comparisons within and across books**
* express views about books and explain and justify personal opinions
* courteously challenge views of others that may differ from their own
* be critical of what we have read, and what writers have to say

**Writing*** write effectively for a range of purposes and audiences, selecting language that shows good awareness of the reader (e.g. the use of the first person in a diary; direct address in instructions and persuasive writing)
* in narratives, describe settings, characters and atmosphere
* integrate dialogue in narratives to convey character and advance the action
* select vocabulary and grammatical structures that reflect what the writing requires, doing this mostly appropriately (e.g. using contracted forms in dialogues in narrative; using passive verbs to affect how information is presented; using modal verbs to suggest degrees of possibility)
* use a range of devices to build cohesion (e.g. conjunctions, adverbials of time and place, pronouns, synonyms) within and across paragraphs
* use verb tenses consistently and correctly throughout their writing
* use the range of punctuation taught at key stage 2 mostly correctly (e.g. inverted commas and other punctuation to indicate direct speech)
* spell correctly most words from the year 5 / year 6 spelling list, and use a dictionary to check the spelling of uncommon or more ambitious vocabulary
* maintain legibility in joined handwriting when writing at speed.
 | * Solve problems involving the calculation and conversion of units of measure (including money and time), using decimal notation up to three decimal places where appropriate.
* Use, read, write and convert between standard units, converting measurements of mass and volume from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.
* Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3) and extending to other units (for example, mm3 and km3).
* Perform mental calculations, including with mixed operations and large numbers and decimals.
* *Add and subtract whole numbers and decimals using formal written methods (columnar addition and subtraction).*
* *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).*
* *Select a mental strategy appropriate for the numbers involved in the calculation.*
* Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
* Solve problems involving addition, subtraction, multiplication and division.
* Use their knowledge of the order of operations to carry out calculations involving the four operations.
* Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
* Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
* Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.
* Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
* Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
* Compare and order fractions, including fractions >1 *(including on a number line).*
* Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
* Multiply simple pairs of proper fractions, writing the answer in its simplest form *(using diagram)* (e.g. $\frac{1}{4}$ x $\frac{1}{2}$ = $\frac{1}{8}$ ).
* Divide proper fractions by whole numbers *(using diagram)* (e.g. $\frac{1}{3}$ ÷ 2 = $\frac{1}{6}$ ).
* *Count forwards or backwards in steps of integers, decimals or powers of 10 for any number.*
* *Order and compare numbers including integers, decimals and negative numbers.*
* *Calculate differences in temperature, including those that involve a positive and negative temperature.*
* *Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number.*
* *Round decimals with three places to the nearest whole number or one or two decimal places.*
* *Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal.*
* Draw 2-D shapes using given dimensions and angles.
* Recognise, describe and build simple 3-D shapes, including making nets.
* Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
* *Continue to complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers and shapes).*
* Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
* Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
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