# **Aintree Davenhill Medium Term Planning**

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Subtract decimals with two decimal places, e.g. 206.04–72.36



Year Group: 5 Term: Autumn 1		A MARY . SCHOO
Maths	Science	English
Number and Place Value (Mental Maths)  Read and write any integer and use decimal notation for tenth and hundredths and know what each digit represents  Count forwards and backwards in steps of 0.1, 0.1, 1, 10, 100, 1000 from any positive integer or decimal  Count forwards and backwards in steps of 0.1, 0.1, 1, 10, 100, 1000 from any positive integer or decimal  Count forwards and backwards in steps of describe any patterns in the sequence  Order and compare whole numbers up to 1 100 0000, negative numbers and decimals with up to two decimal places  Know by heart facts for all multiplication tables up to 12 x 12  Complete and interpret information in a variety of sorting diagrams (including those used to sort properties of numbers)  Find pairs of numbers with a sum of 100  Derive related facts from those already known (e.g. 4 x 0.8 linked to 4 x 8 or 3 + 7 = 10 linked to 0.3 + 0.7 = 1)  Find doubles and halves of decimals each with units and tenths  Multiply and divide whole numbers and decimals with up to two decimal places mentally by 10 or 100, and integers by 1000 and use this to convert between units of measurement, e.g. cm to m.g. to kg. etc.  Round whole numbers to the nearest 10, 100, 1000 or a number with up to two decimal places to the nearest integer or number of decimal places  Place Value  Exchange 10 thousands for 1 thousand and vice versa using place value counters  Exchange 10 ten thousands for 1 hundred thousand and vice versa using place value counters  Exchange 10 thousands for 1 hundred thousand and vice versa using place value counters  Exchange 10 tundred thousands for 1 hundred thousand and vice versa using place value counters  Exchange 10 hundred thousands for 1 hundred thousand and vice versa using place value counters  Exchange 10 hundred thousands for 1 hundred thousands, thousands, hundreds, tens and ones  Exchange 10 hundred thousands for 1 hundred thousands, thousands, hundreds, tens and ones  Exchange 10 hundred thousands for 1 hundred thousands, thousands, hundreds, tens and one		Reading Word Reading  Use knowledge of root words to understand meanings of words  Apply knowledge of prefixes to understand meaning of new words  Use suffixes to understand meanings eg. ant. ance, ancy,  -ent. ence, ency, -ible, -able, -ibly, -ably  Read and understand meaning of words on Y5/6 word list – see bottom  Use punctuation to determine intonation and expression when reading aloud to a range of audiences  Reading Comprehension Maintain positive attitudes to reading and understanding what they read by:  Listening to and discussing a range of fiction/poetry/non-fiction which they might not choose to read themselves  Regularly listening to whole novels read aloud by the teacher from an increasing range of authors  Exploring themes within and across texts eg. loss, heroism, friendship  Making comparisons within a text eg. characters' wiewpoints of same events  Analysing the conventions of different types of writing e.g. use of first person in autobiographies and diaries  Recommending books to their peers with reasons for choices  Reading books and texts that are structured in different ways for a range of purposes  Expressing preferences about a wider range of books including modern fiction/traditional stories/myths/legends  Learning a wider range of poems by heart  Preparing poems and playscripts to read aloud and perform, showing understanding through intonation, tone, volume and action so the meaning is clear to an audience  Understand what they read by:  Checking that the book makes sense to them and demonstrating understanding e.g. through discussion, use of reading journal  Inferring characters' feelings, thoughts and motives from their actions and justifying inferences with evidence  Predicting what might happen from information stated and implied  Re-read and reads ahead to locate clues to support understanding  Scanning for key words and text marking to locate key information  Summarishing main ideas drawn from more than one paragraph and identifying key details which support this  Identifying ho
2.37.2.43, 2.49 (step size 0.06)  Describe and extend number sequences where the step size is in multiples of hundredths greater than a tenth, e.g. 2.42, 2.57,27.2.2.87 (step size 0.15)  Addition and Subtraction  Recognise calculations that require mental partitioning e.g.4,300 + 1,400 or 424–250 or 6.32–3.5 and use this strategy where appropriate  Recognise calculations that require counting on or back mentally, bridging through a multiple of 10 efficiently e.g. 1995+278 becomes1995 + 5+273 or 703–128 becomes703–3–125 and use this strategy where appropriate  Recognise calculations that require counting on mentally to find the difference e.g. 5003–1960 (counting efficiently between the two numbers) and use this strategy where appropriate  Recognise calculations that require a mental compensation method e.g. 325 + 298 becomes 325 + 300–2 and use this strategy where appropriate  Choose an appropriate mental strategy to solve a calculation based upon the numbers involved  Add whole numbers with more than 4 digits including combinations of numbers with different amounts of digits using a column method e.g. 4,689 + 67,302 + 78Use rounding to check answers to calculations and determine, in the context of		Create complex sentences by using relative clauses with pronouns who, which, where, whose, when, that, e.g. Sam, who had remembered his wellies, was first to jump in the river The robberies, which had taken place over the past month, remained unsolved Create and punctuate complex sentences using ed openers Create and punctuate complex sentences using ing openers Create and punctuate complex sentences using simile starters Demarcate complex sentences using commas and explore ambiguity of meaning Explore, collect and use modal verbs to indicate degrees of possibility, e.g. might, could, shall, will, must Use devices to build cohesion within a paragraph, e.g. firstly, then, presently, subsequently Link ideas across paragraphs using adverbials for time, place and numbers, e.g. later, nearby, secondly Identify and use brackets and dashes Use suffixes -ate, -ise, -ify to convert nouns and adjectives into verbs Investigate verb prefixes e.g. dis-, re-, pre-, mis-, over- Composition Plant their writing by:
Add decimals with two decimal places using a column method, e.g. 53.67 + 26.54 =     Subtract whole numbers with more than 4 digits including pairs of numbers with different amounts of digits, e.g. 54,368–9,279  Ilse rounding to check answers to calculations and determine in the context of a problem levels of accuracy.		Identifying the audience and purpose Selecting the appropriate language and structures Using similar writing models Noting and developing ideas Prawing on reading and research

Drawing on reading and research

• Thinking how authors develop characters and settings (in books, films and performances)

Choose an appropriate strategy to solve a calculation based upon the numbers involved(recall a known fact, calculate		Draft and write by:
mentally, use a jotting, written method)		Selecting appropriate grammar and vocabulary
Statistics		Blending action, dialogue and description within and across paragraphs     Using divisors to build appealing (see MCP) and uses
Discrete data		<ul> <li>Using devices to build cohesion (see VGP column)</li> <li>Using organisation and presentational devices e.g. headings, subheadings, bullet points, diagrams, text boxes</li> </ul>
Answer questions which ask 'How many/much more?' or 'How many fewer/much less?' when comparing two		Evaluate and edit by:
categories in a data set		Assessing the effectiveness of own and others' writing in relation to audience and purpose
<ul> <li>Answer questions which ask 'How many in total?' for different data readings</li> </ul>		<ul> <li>Suggesting changes to grammar, vocabulary and punctuation to enhance effects and clarify meaning</li> </ul>
Solve question where the answer has to be inferred from a given data set e.g. few ice creams were sold on Tuesday     Tuesday the season of the season		Ensuring consistent and correct use of tense throughout a piece of writing
<ul> <li>because it was raining</li> <li>Understand the purpose of different types of graph and identify which is best suited for a particular data set</li> </ul>		Ensuring consistent subject and verb agreement
Continuous data		Proofreading for spelling and punctuation errors     Perform own compositions for different audiences:
Answer questions which ask 'How many/much more?' or 'How many fewer/much less?' when comparing two		Using appropriate intonation and volume
categories in a data set		Adding movement
Answer questions which ask 'How many in total?' for different data readings		Ensuring meaning is clear
<ul> <li>Solve question where the answer has to be inferred from a given data set e.g. few ice creams were sold on Tuesday because it was raining</li> </ul>		
Understand the purpose of different types of graph and identify which is best suited for a particular data set		Spelling  • Spell words that they have not yet been taught by using what they have learnt about how spelling works in English
(Misconception to address in teaching. E.g. rainfall on different days with a day's data missing. It can't be inferred from		Use further prefixes and suffixes and understand the guidelines for adding them
previous and subsequent data)		Spell some words with 'silent' letters, e.g. knight, psalm, solemn
		Continue to distinguish between homophones and other words which are often confused
Geometry (Angles)		Use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to
Know that angles are measured in degrees °		be learnt specifically
Identify reflex angles as those greater than 180° where two lines meet		<ul> <li>Use dictionaries to check the spelling and meaning of words</li> <li>Use the first three or four letters of a word to check spelling, meaning or both of these in a dictionary</li> </ul>
Compare all types of angles including reflex angles		Use a thesaurus
Measure acute angles to the nearest degree		Use suffixes -ate, -ise, -ify to convert nouns and adjectives into verbs
Measure obtuse angles to the nearest degree		Investigate verb prefixes e.g. dis-, re-, pre-, mis-, over-
Draw acute angles to the nearest degree     Draw obtuse angles to the nearest degree		Handowskin-
• Draw obtuse angles to the hearest degree		Handwriting  • Write fluently
Geometry (Angles)		Choose when it is appropriate to print or join writing, e.g. printing for labelling a scientific diagram
Measure and draw lines to the nearest mm		Choose when it is appropriate to print or join writing, e.g. printing for labelling a scientific diagram
Draw shapes with some given side dimensions, for example draw a triangle with side lengths of 67mm and 4.3cm. What		
is the length of the other side? Is there more than one possibility? lengths and angles be?		
Identify the perimeter of composite rectilinear shapes through accurate measuring to the nearest mm     Calculate/identify the length of missing sides of composite rectilinear shapes (lengths in mm and decimal cm)		
Calculate the perimeter of a composite rectilinear shape where the lengths of some sides are not given (lengths in mm		
and decimal cm)		
	Goography	Computing
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Electrical systems - Doodlers

Identify simple circuit components (battery, bulb and switch) with a basic explanation of their function.

Explain that a series circuit is assembled in a loop to allow the electricity to flow along one path.

Describe a motor as a circuit component that changes electrical energy into movement.

Provide examples of motorised products that use movement to rotate or spin different parts.

Remove and replace different parts of a Doodler, as part of a team.

Suggest ways to switch the configuration to amend the form or function of the Doodler.

Explain, in an investigation report, each of the changes they made and the effect this had on the Doodler's ability to draw scribbles (function) and appearance (form).

Develop design criteria with consideration for the target user, the purpose of their Doodler, a key function and the Doodler's form and final appearance (e.g. fun, bright, soft).

Explain simply why their Doodler has a certain configuration based on the findings of their investigation (e.g. I used four

pens because the Doodler would fall over with two).

Create a functional Doodler that creates scribbles on paper with or without a switch.

Identify and list each of the required materials, tools and circuit components required to build a Doodler.

Explain simply the steps to assemble a Doodler as part of a set of instructions (or storyboard).

Write instructions to build a functional circuit, explaining how to identify if it is functional or not.

Provide suggestions to improve a peer's set of instructions after testing how effective they are at guiding someone.

Trombones provided by Sefton music service

Composition Notation: Ancient Egypt

Here come the Egyptians

To sing with accuracy, fluency, control, and expression

To sing in time with other people and a backing track

To follow or remember the lyrics

To follow the tune

### Hieroglyphic score

To explore and use different forms of notation

To show the structure of a piece of music using non-standard notation

To use hieroglyphs to notate own composition

### Play like an Egyptian

To understand note length

To play a melody by ear

To recognise note names and note length

To make own part balance with the other music around one

### Pitch Pyramids

To read simple pitch notation

To play a melody by reading pitch notation

To know that notes can go either on or between the lines

To use pitch notation to write down my own melody

### Egyptian Farwell

To use hieroglyphs and stave notation to write a piece of music

To work as part of a group to compose a piece of music in a particular style

To notate own piece using hieroglyphs and stave notation

To perform as part of a group

## Spanish

### Listening

- . Follow a short familiar text listening and reading at the same time
- · Listen attentively and understand more complex phrases and sentences; join in to show understanding
- Listen for gist
- Understand longer and more complex phrases / sentences
- Pick out main details from a story, poem, song, conversation or passage

### Speaking

- Speak with increasing fluency
- · Prepare and practise a simple conversation using familiar vocabulary and structures in new contexts
- Prepare a short presentation on a familiar topic
- · Understand and express simple opinions
- · Initiate and sustain conversations and tell stories
- Speak in sentences using familiar vocabulary, phrases and basic language structures
- Perform to an audience speaking clearly and audibly with accurate pronunciation and intonation
- Speak with increasing spontaneity
- · Use repair strategies to keep a conversation going

### Reading

- Read carefully and show understanding of words, phrases and simple writing
- Re-read frequently a variety of short texts
- Read and understand the main points and some detail from a short written passage
- Identify different text types and read short, authentic texts for enjoyment or information
- · Match sound to sentences and paragraphs
- Broaden vocabulary
- Develop strategies for understanding new words in familiar material including using a dictionary
- Apply phonic knowledge of the foreign language in order to decode text

### Writing

- Write phrases from memory and adapt these to make new sentences
- Express ideas clearly
- to write words, short phrases and short sentences, using a reference
- Be able to write at varying length, for different purposes and audiences
- · Write sentences on a range of topics using a model
- Write in sentences using familiar vocabulary, phrases and basic language structures with increasing accuracy

### Grammar

- Nouns Gender
- Singular and plural forms
- · Definite and indefinite article
- Develop an awareness of sound spelling link to be able to write with increasing accuracy
- Recognise different word classes e.g. nouns, verbs, adjectives
- Recognise and use high frequency verbs
- · Question words
- . Develop an awareness of the place of the adjective in the sentence
- · Develop an awareness of adjectival agreements
- Simple adverbs of time (time phrases including o'clock)
- Develop an awareness of word order
- Apply knowledge of language rules and conventions when building short sentences
- Personal pronouns I, you, he, she, it, we, they

		Develop an awareness of verb patterns Conjugate regular high frequency verbs Conjugate some basic high frequency irregular verbs Begin to use adjectival agreements with accuracy Use of prepositions A + definite article De + definite article Prepositions Use a range of adverbs to make messages more interesting
P.E	P.S.H.E	R.E
Hockey To perform a block tackle to dispossess an attacker. To use fast, accurate passes into the D to create scoring opportunities. To mark an attacker closely to stop them from receiving the ball. To perform a sweep hit to send the ball first time". To move the ball quickly from left to right to outwit a defender. To use a variety of techniques to keep possession in a game.  Badminton To make it difficult for our opponent to score points. To apply basic court positions in singles play. To accurately hit both long and short sleeves. Close control, including net shots. To use footwork to recover after lunging and moving after shots. To apply a range of movements and shots in competition.	Health and Well-Being To set a goal To explain what makes a healthy meal (Link to Eat Like A Champ) To explain the importance of nutrients and fibre (Link to Eat Like A Champ) To explain the importance of hydration (Link to Eat Like A Champ) To understand the importance of portion control (Link to Eat Like A Champ) To interpret and understand information on feed labels (Link to Eat Like A Champ) To explain what makes a situation fair or unfair (Link to Student Council Elections)	U2.1 Why do some people think God exists?  This investigation enables pupils to learn in depth from different religious and non-religious groups about the nature of belief in God. Pupils enquire into the key question -raising questions about the nature and existence of God focusing on Christian ideas about God. Pupils will consider why people do or don't believe in God and the impact that might have on the way they live their everyday life. This investigation provides an opportunity to meet Christians, agnostics and atheists and ask questions about why they do or don't believe in God. It enables a clear sequence of learning and the development of a rich knowledge of different worldviews. Pupils use some if the main disciplines with which religion and worldviews are studied.  Pupils will:  • Define the terms theist, atheist and agnostic and give examples of statements that reflect these beliefs (B1). • Give two reasons why a Christian believes in God and one why an atheist does not (A3).  • Outline clearly a Christian understanding of what God is like, using examples and evidence (A2).  • Give examples of ways in which believing in God is valuable in the lives of Christians, and ways in which it can be challenging (B2).  • Express thoughtful ideas about the impact of believing or not believing in God on someone's life (B1).  • Present different views on why people believe in God or not, including their own ideas (C1).  • Explain how Christians sometimes disagree about what God is like, giving examples of how they interpret texts differently (B3).  • Enquire into what some athelsts, agnostics and theists say about God, expressing their own ideas and arguments, using evidence and examples (C1).