

**KS4 Maths**

**Measure- Money**

<p><b>Subject curriculum intent:</b></p>	<p>We want our pupils to be able to develop functional money skills so that they can be as independent as possible in their adulthood. Depending on the cognitive ability of the pupil, our intention is that pupils are able to recognise and name all coins and notes. pupils will begin to develop an understanding of change and understanding that they need to wait for change when buying an item.</p> <p>We want our pupils to...</p> <ol style="list-style-type: none"><li>1. develop <b>fluency</b> in the fundamentals of mathematics so that they are efficient in using and selecting the appropriate strategies to <b>use time skills</b> including mental methods, underpinned by mathematical concepts</li><li>2. can <b>solve problems</b> by applying their mathematics to a variety of problems with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios</li><li>3. can <b>reason mathematically</b> by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.</li></ol> <p><b>In all math lessons, teachers plan engaging lessons with the aim that pupils:</b></p> <ul style="list-style-type: none"><li>• master skills in maths which they are then able to apply to a range of contexts within the school and home context</li><li>• embed their new skills and understanding to a range of contexts; thus supporting application and progress in learning</li><li>• acquire core mathematical skills to support their independence as they progress through the school</li><li>• are able to apply their understanding; supporting them in other areas of the curriculum</li></ul>	
<p><b>End of KS3 intent/outcome</b></p> <p>Students will begin to become more confident in naming coins and notes from sight. Students will be able to use the colour, size and shape of coins/notes to support them in naming money. Students will begin to recognise that each coin or note has a different value, recognising that some are worth more than others.</p>	<p><b>End of KS4 intent/outcome</b></p> <p>Starting from their last learning point, students will continue to recognise the names of coins or notes from sight. Students will be able to use a combination of coins or notes to make a given amount. Students will begin to understand the process of change. Students will recognise that they need to wait for change when paying for an item in a shop as well as knowing how much change they should give to someone.</p>	<p><b>End of KS5 intent/outcome</b></p> <p>Students will continue to build on their knowledge from key stage 3 and 4. When ready, students will begin to use money to develop life skills and functional skills through using money in the shop or café. Pupils will learn how to budget their money, using and applying their money knowledge and skills that they have developed.</p>
<p><b>Intent for this topic:</b></p>	<p>This half term, pupils will build on their knowledge of money from the KS3 Curriculum, starting at their last learning point. Students will know what coins and notes they can use to make amounts or use visuals to support them with this. Students will know the value of coins and notes and will be able to name money by sight. Students will use role play and enterprise activities to strengthen their understanding of and fluency in using money. Students in KS4 will develop more knowledge around purchasing items needed for recipes, as well as selling for a</p>	

profit. These skills will link to their 'Café baking' sessions whereby they will sell their food items around school, using and applying money skills with fluency.

Key vocabulary taught within this topic:	Coins, notes, value, amount, order, change, pounds, pence, 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5, £10, £20, £50, value, add, subtract
Links to other subjects:	-Food technology (purchasing food for a recipe) -Enterprise christmas fair (Budgeting and selling items for a profit) -Number skills inc addition & subtraction -Café baking - selling for a profit

**Suggested flow:**

This flow is to be used as a guide. Teachers to adapt the flow to meet the needs and levels of students within their class

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Pre-assessment. What knowledge and skills do pupils already have?  Matching/sorting/naming/ordering coins and notes.	Comparing values	Equivalent values and making values	Making values with limited available coins/notes - real life context	Understanding what can be purchased within a limited amount of given money	Calculating change	Christmas enterprise - create a bar chart for items sold at the christmas fair / Cafe baking. Analyse data & look at what the profits were
Using and applying early statistic skills	Using and applying addition, multiplication & problem solving skills	Using and applying addition skills	Using and applying addition and problem solving skills	Using and applying number, addition and problem solving skills	Using and applying subtraction skills	Using and applying addition, subtraction and statistic skills

**Measure - Money**

	B2 P 5	B2 P 6-8	B2 step 1c-1b	B2Step 1b-2c	B2Step 2c-2a	B2Step 2a-3a
<b><u>Subject specific knowledge</u></b>	<u>To know</u> and be familiar with the appearance of money	<u>To know</u> key words: pounds and pence	<u>To know</u> there is a front and back to a coin	<u>To know</u> 'notes' are higher in value than coins	<u>To know</u> and use the symbols (£) and (p)	<u>To know</u> to round up the total and give more money

<p><b>What do pupils need to know?</b></p>	<p><u>To know</u> that coins are money</p> <p><u>To know</u> different coins look different</p> <p><u>To know</u> some coins are shiny and some are not</p>	<p><u>To know</u> and expect change to be given in money handling contexts</p> <p><u>To know</u> / notice different coins can be different shapes</p>	<p><u>To know</u> the names/values of all coins</p>	<p><u>To know</u> you can buy more with higher value coins/notes</p>	<p><u>To know</u> coins can be added to make the same value of another coin</p> <p><u>To know</u> more coins does not always mean more money</p>	<p>than needed, then wait for change</p> <p><u>To know</u> sensible coins to give when rounding e.g, if something is £4.50, give a £5 note and not a £10 if you have it</p>
<p><b>Subject specific skills</b></p> <p><b>What do pupils need to be able to do?</b></p>	<p>To experience handling money</p> <p>To experience handling money to somebody and receiving an item/object.</p> <p><u>Is able to</u> separate coins based on their colour</p> <p><u>Is able to</u> role play using money</p>	<p><u>Is able to</u> use key words: pounds and pence in money role play opportunities</p> <p><u>Is able to</u> hand over any coin to 'pay' for an item</p> <p><u>Is able to</u> bring the item and a coin to the counter</p> <p><u>Is able to</u> sort coins based on colour, size and shape</p>	<p><u>Is able to</u> name all coins when placed <u>face up</u></p> <p><u>Is able to</u> name all coins when placed <u>face down</u></p> <p><u>Is able to</u> count out the correct number of 1p coins for values up to 20p</p> <p><u>Is beginning to</u> order coins based on their value</p>	<p><u>Is able to</u> order coins based on their value</p> <p><u>Is able to</u> name all notes</p> <p><u>Is able to</u> give equivalent amount for each note e.g. £5 note = 5 x 1 pound coins</p> <p><u>Is beginning to</u> use and apply knowledge of 2x or 10x tables to count in multiples up to 30 e.g.  <math>2p + 2p + 2p + 2p = 8p</math>  <math>10p + 10p + 10p = 30p</math></p>	<p><u>Is able to</u> use correct signs £ and p independently</p> <p><u>Is able to</u> find different combination of coins for the same value e.g. <math>5p + 5p = 10p</math> OR <math>5p + 2p + 2p + 1p = 10p</math></p> <p><u>Is able to</u> solve simple problems for addition and subtraction of money</p>	<p><u>Is able to</u> add and subtract amounts of money to give change in context</p>
<p><b>Suggested teaching activities</b></p> <p><b>How should I teach this?</b></p>	<ul style="list-style-type: none"> <li>• Money hidden in sand/foam</li> <li>• Putting money in and out of a purse/wallet</li> </ul>	<ul style="list-style-type: none"> <li>• Link with handling data - separate coins according to colour</li> <li>• Role play shop</li> </ul>	<ul style="list-style-type: none"> <li>• Coin snap</li> <li>• Role play shop</li> <li>• Find me the ... coin game</li> </ul>	<ul style="list-style-type: none"> <li>• Order game... which would you rather have?</li> <li>• Role play shop - introduce notes and change</li> </ul>	<ul style="list-style-type: none"> <li>• Role play shop.</li> <li>• Buy items using more than one coin - link with addition</li> <li>• Change - link with subtraction</li> <li>• Begin to link things grown in school that are used to make and sell food from school shop and café.</li> </ul>	

	<ul style="list-style-type: none"><li>• Role playing shop</li></ul>	<ul style="list-style-type: none"><li>• Number coin flash</li><li>• Coin snap</li></ul>			<ul style="list-style-type: none"><li>• Going to a local supermarket to buy food items for a recipe</li></ul>
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