

<u>Year 1</u> : Computational Thinking with Cubetto <u>Unit 1: Lesson 4</u> : Cubetto's Shopping		 6 Cubettos and 6 Boards 6 City Maps 6 Sets of Blocks (with 19 blocks in each) 		Cross-curricular area: Maths
NC Objectives To create a simple algorithm	 Outcomes I can recognise 1p, 2p, 5p and 10p coins I can write an algorithm 	Computational Thinking Concept Approach Algorithms Creating	 Resources Provided Board template 	 Resources <u>Needed</u> Large 1p, 2p, 5p and 10p coin images Plastic coins Price tags: 1p, 2p, 5p, 10p & blank Coloured whiteboard pens
 Preparation <u>Needed</u> Check batteries. Stick coin pictures to the board, face down, at random. Label items on the City Maps with price tags of 1-10p. 	 Teacher-led introduction Tell the children that they're going to play snap! Ask a child to take one of the coin pictures off the board and turn it over, then show the class. Ask: <u>What is this a picture of?</u> Clarify its value. Tell the volunteer to remain standing at the front and ask for a second child to choose a card and show the class. Ask: <u>Do these pictures match?</u> If not, stick the second picture back on the board and repeat until a match is found. Show the four different coins and ask: <u>How much money do we have in total here?</u> Show the labelled map and ask: <u>How much does the bike cost?</u> 10p. Ask: <u>Which coin should Cubetto use to pay for the bike?</u> Repeat for other items (e.g. taxi ride, playground in the park, fruit/veg at market). Show 20p on the board made up of different coins (e.g. one 10p, one 5p, two 2ps, one 1p). Ask: How much money do I have in total? 			
Key Vocabulary Coins Money Pence	 Guided activity Hand out coins to children (differentiate from total of 10-20p). Ask: How much money do you have to spend? Explain that children need to choose one or more items on the map that they can buy with their money. They can't spend more than that! Place Cubetto near the middle of the labelled map and show the Board template Model using the coloured pens to match the block colours and write an algorithm to buy one item. 			
Challenge You've lost the purple backward block! Can you still make Cubetto go backwards?	 6. When they have checked, allo 6. When they have checked, allo Independent activity 1. What would you like to buy where the second second	w time for pupils to test out out <u>hen you go shopping?</u> puld like to buy and cut it out. uare on the map. how much your item costs: 10p, <u>pay for your item?</u>	5p, 2p or 1p.	



Creative Play	Plenary and assessment
Design new money for	1. Describe one of the coins for the children to guess (e.g. I'm thinking of a grey coin. It's small. What coin am I thinking of?).
Cubetto's world.	2. Repeat for the other coins.
	3. Ask children to share their pictures of what they would like to buy and ask: Which coin would you need to buy that?
	4. Ask: How many items could you buy on the map for 20p?