

<u>Year 1</u> : Computational Thinking with Cubetto <u>Unit 1: Lesson 6</u> : Cubetto's Crossword		 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 spell numbers I can use the function block 	Comput Thinl Concept Algorithms	ational king Approach Creating	 Resources Provided Maths crossword 	 Resources <u>Needed</u> Tape and black squares 15x15cm Letter cards to spell 'twenty' and blanks Mini whiteboards
 Preparation <u>Needed</u> Check batteries. Turn the maps over and turn into blank 6x6 grids using tape. Create example algorithm using function line to get Cubetto to move forward five squares. Copy and cut up crosswords. 	 Teacher-led introduction Show crossword on board (see Reveal clues and read each on Explain that Cubetto's map has Show the maths crossword on number in words in the blank set Model completing the first quese Ask: Can anyone spell '20'? Ha Ask class to tell the pupils which child to sit down as you write in Place the letter cards on the blank Ask: What blocks would we need Show the blocks they have avait this work? Show the blue block and explain inside it and can help when we 	e reverse) and as the in turn, giving the board and e quare. Explain the tion $(10+10 = ?)$ and out the lette h order to stand their letter. ank map to mate to make Cub ilable and ask c in that this is cal	sk: <u>What is thi</u> time for childr to a crosswor explain that each hat some answ). Explain that r cards to six r I in to spell the ch the crosswor <u>etto spell 'twei</u> children to cour hildren to cour	<u>s? How do we solve it?</u> en to discuss and write th d and the children need to ch of the clues is a maths wers go across and some pupils need to write in the andom pupils and ask the word 'twenty' . Then com ord and explain that Cuber <u>hty', moving from 'T' to 'Y'</u> nt the forward blocks, ther on block. It's like a rucksa	e answer in the blank squares. o help Cubetto solve all the clues . question that they have to solve, then write the down . e word, not the number. e word, not the number. m to stand at the front. hplete the first clue in the crossword, asking each tto spells words by moving over letters in order. <u>?</u> n the number of letters in the word. Ask: <u>How can</u> tock because it can carry up to four other blocks tion line to get Cubetto to spell the word
Key Vocabulary Crossword Clues Across/down One, two (up to twenty) Function Challenge Can you write new maths clues to make the same answers?	 Guided activity Show the black squares, blank the crossword puzzle. When completed, read out one Hand out mini whiteboards and Write each letter of the word on Ask pupils to work in pairs to wr Ask: <u>What blocks are in your fur</u> Independent activity Take a crossword and pencil. Read the first clue and work ou Write down the number in word Can you find where the answer 	map and crossw clue and point to ask pupils to wr a card and place ite an algorithm <u>nction line?</u> Swa t the answer. Is and check you <u>goes in the cro</u>	vord image. As o its starting p rite the numbe ce the solution , using the fun ap algorithms v ur spelling. <u>ssword?</u> Write	sk pupils to work together oint. Allow pupils time to s r answer in words. Discus on the crossword map. P action block, that will spell with another pair. <u>What's t</u> e in your answer and repea	to place the black squares on the map to make solve the maths question. Is spelling and correct together. lace Cubetto on the first letter. out this word. the same/different? Repeat for other clues.



Creative Play	Plenary and assessment
Move the black	1. Ask: How does the function block help us? How did you use it today?
squares around to	2. Show an algorithm using the function block and ask children to guess where Cubetto will move to.
make a new	Show the crossword and ask children to share their answers until the puzzle is solved
crossword!	4. Play mini spelling bee: read a number and ask children to spell against the clock!

