

Children's University Club Challenge

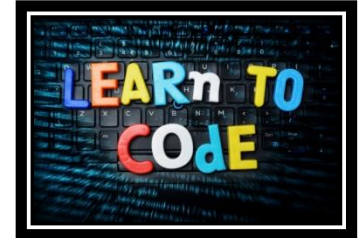


Coding - part 2!



This is the second part of our 'Coding ' Challenge!

Coding is a really important skill - it's being able to work out step-by-step instructions (an 'algorithm'), spotting and developing patterns ('programming'), and working out where they might have gone wrong ('debugging'). Part 1 set us up with the basics, so once you've mastered them, have a go at this one where you'll learn skills in 'logical reasoning' – (explaining why something happens). You'll also learn about 'decomposition' (breaking down a task into smaller, more-manageable parts) and 'persevering' (being determined, resilient, and never giving up) - great skills for life!



You will need:
- Paper and pencil

Step 1: Use the table to work out the message below. You might need to fill in the gaps first?

A	B	C	D	E	F	G	H	I	J	K	L	M
	2			5							12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
		16						22				26

23, 5 8, 15, 16, 5 25, 15, 21 1, 18, 5 5, 14, 10, 15, 25, 9, 14, 7

20, 8, 9, 19 3, 15, 4, 9, 14, 7 3, 8, 1, 12, 12, 5, 14, 7, 5

Step 2: Coding is really writing a set of instructions using numbers. Create your own code using letters and numbers first, then decide on a message. Write the numbers down for a member of your family to decode! What will your message be?

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

2 CU Credits for completing this challenge (including Step 3) To claim your credits, please complete your CU Club Reflection Diary and return to your school along with your work.

Step 3: Now you're used to coding and de-coding, have a go at this one...

Code breakers activity worksheet

First, can you decipher the code? Next, some of the words are in the wrong place. Can you rearrange your jumbled up code so it makes sense? Hints: it is a rhyming verse.

The first line is correct. **1 = a, 26 = z**

1, 19	19, 15, 15, 14	1, 19	23, 15, 12, 6	2, 5, 7, 1, 14	20, 15	6, 5, 5, 12	
20, 8, 1, 20	8, 5	13, 5, 1, 12	12, 9, 11, 5	1	4, 5, 3, 5, 14, 20	23, 15, 21, 12, 4	
8, 5	23, 5, 14, 20	1, 14, 4	7, 18, 1, 14, 4, 13, 1, 19	15, 14	11, 14, 15, 3, 11, 5, 4	4, 15, 15, 18	
15, 16, 5, 14, 5, 4	7, 18, 1, 14, 4, 13, 1	23, 8, 5, 14	9, 20	19, 8, 5	19, 1, 23		
20, 8, 5	19, 8, 1, 18, 16	23, 8, 9, 20, 5	8, 15, 18, 18, 9, 4	20, 8, 5	20, 5, 5, 20, 8	7, 18, 9, 14	
1, 14, 4	3, 15, 13, 5	19, 1, 9, 4	13, 1, 25	9	23, 15, 12, 6, 9, 5	9, 14	
16, 15, 15, 18	20, 5, 18, 18, 9, 6, 9, 5, 4	23, 1, 19	7, 18, 1, 14, 4, 13, 1, 13, 131				
8, 5, 19	19, 8, 5	20, 15	5, 1, 20	13, 5	21, 16	3, 18, 9, 5, 4	7, 15, 9, 14, 7
1, 14, 4	1, 2, 19, 15, 12, 21, 20, 5, 12, 25	23, 1, 19	19, 8, 5	18, 9, 7, 8, 20			
8, 5	2, 9, 20, 5	8, 5, 18	21, 16	9, 14	15, 14, 5	2, 9, 7	1, 20, 5

Answer sheet

as	soon	as	Wolf	began	to	feel	
that	he	<i>would</i>	like	a	decent	<i>meal</i>	
he	went	and	<i>knocked</i>	on	<i>Grandma's</i>	door	
<i>when</i>	Grandma	<i>opened</i>	it	she	saw		
the	sharp	white	<i>teeth</i>	the	<i>horrid</i>	grin	
<i>and</i>	<i>Wolfie</i>	said	may	I	come	in	
poor	<i>Grandmamma</i>	was	<i>terrified</i>				
he's	<i>going</i>	to	eat	me	up	<i>she</i>	cried
and	<i>she</i>	was	<i>absolutely</i>	right			
he	<i>ate</i>	her	up	in	one	big	<i>bite</i>

As soon as Wolf began to feel
That he would like a decent meal,
He went and knocked on Grandma's door.
When Grandma opened it, she saw
The sharp white teeth, the horrid grin,
And Wolfie said, 'May I come in?'
Poor Grandmamma was terrified,
'He's going to eat me up!' she cried.
And she was absolutely right.
He ate her up in one big bite.

Barefoot would like to thank the publishers Penguin for allowing us to use this poem written by Roald Dahl as a resource.
The verse has been extracted from "Little Red Riding Hood and the Wolf" from the "Revolting Rhymes" collection.