

Codebreaker Starter Pack

Four secret puzzles from Leo, Poppy and Bit. Grab a pencil! Answers are on page 2, but no peeking.

1. Bit's welcome message

Bit locked this message by moving every letter **3 steps forward** in the alphabet (A → D). Unlock it by moving every letter **3 steps back**.

ZHOFRPH DJHQW

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Alphabet helper: 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. The binary name tag

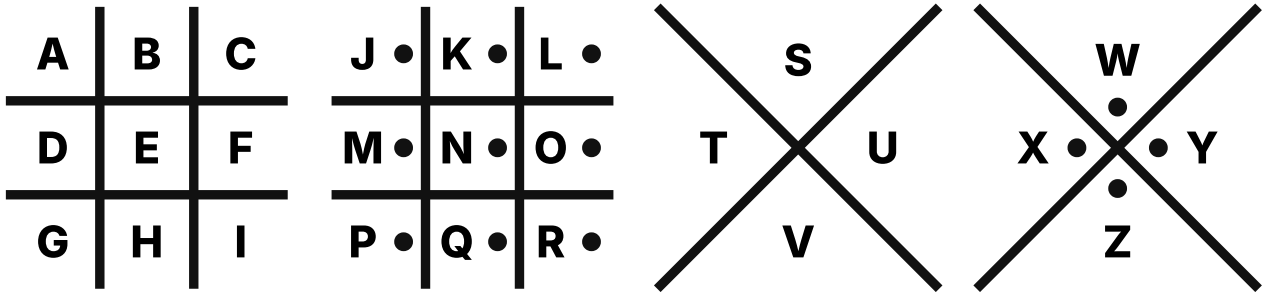
A = 1, B = 2, C = 3 … Z = 26. Each number is written in binary. Use the columns **16 8 4 2 1**: add the numbers that sit above a 1.

16	8	4	2	1	Number	Letter
1	0	0	1	1		
1	0	0	0	0		
1	1	0	0	1		

The secret word is: _____

3. Poppy's pigpen note

Each shape is the "walls" around a letter in this key. A dot means the letter is in a grid with dots.



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4. Who ate the apple?

Leo, Poppy and Bit each had one snack: a cookie, an apple or a battery. Bit only eats batteries. Poppy does not like apples.

Who ate the apple? _____ Who ate the cookie? _____

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Answers

Check your work. Got one wrong? Find the step where it went off track. That's what real codebreakers do!

1. WELCOME AGENT

Z → W, H → E, O → L, F → C, R → O, P → M, H → E · D → A, J → G, H → E, Q → N, W → T.

2. SPY

10011 = 16 + 2 + 1 = 19 = S · 10000 = 16 = P · 11001 = 16 + 8 + 1 = 25 = Y.

3. CODE

C is in the top-right of the plain grid. O is in the middle-right of the dotted grid. D is in the middle-left of the plain grid. E is the middle box, with all four walls.

4. Leo ate the apple. Poppy ate the cookie.

Bit has the battery. Poppy doesn't like apples, so she had the cookie. That leaves the apple for Leo.

Want more?

Leo, Poppy and Bit have three real cases to crack in **The Little Turing Codebreakers & The Glitching Robot**: 24 puzzles about binary, ciphers, logic and algorithms. Available on Amazon.

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