

Code names Challenge

Cryptography - what is it?

Cryptography is the writing of secret messages using codes and keys, and then working out the secret message using the secret code/key! Making the message secure using a code is called **encryption**. Working out the message or decoding is called **decryption**.

Code Name Challenge

Step 1 Print out the name badge template or draw your own on a piece of paper.

Step 2 Using the key/code templates for Binary, Morse code, Pig Pen and Caesar cypher(wheel) create an encrypted name badge for each. You can use your name or make one up!

What You'll Need

- Pens/pencils
- Name badge template
- Key/code templates
 - Binary; Morse code, Pig Pen

Why are we doing this?

This lets you practise cryptography in a fun way and helps understand the importance of encryption and decryption to keep information and data safe.

Code Name Challenge

Hello
my name is

Hello
my name is

Hello
my name is

Hello
my name is

More Code name Fun!

- ✓ Can you create your own alphabet secret code and ask someone at home to write their name or secret message using your code? Can you crack / decrypt their code?
- ✓ Can you list ways in which you and your family can secure important information and devices (e.g. bank accounts; laptop)?
- ✓ Check out more cryptography challenges on the Technocamps website.



Binary Alphabet

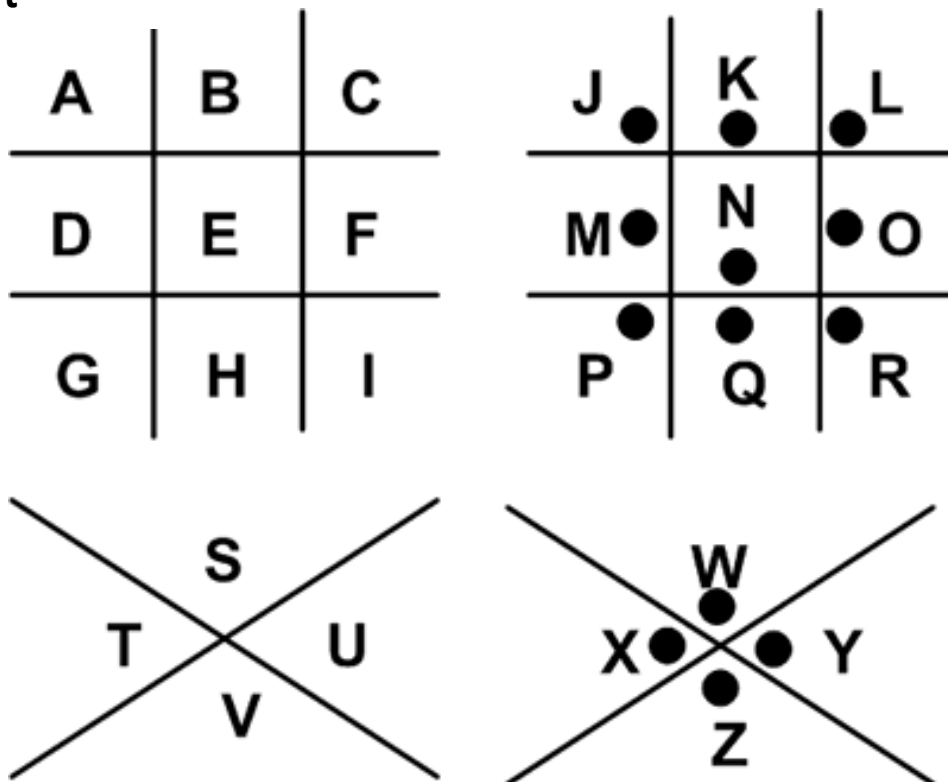
A	01000001
B	01000010
C	01000011
D	01000100
E	01000101
F	01000110
G	01000111
H	01001000
I	01001001
J	01001010
K	01001011
L	01001100
M	01001101
N	01001110
O	01001111
P	01010000
Q	01010001
R	01010010
S	01010011
T	01010100
U	01010101
V	01010110
W	01010111
X	01011000
Y	01011001
Z	01011010

a	01100001
b	01100010
c	01100011
d	01100100
e	01100101
f	01100110
g	01100111
h	01101000
i	01101001
j	01101010
k	01101011
l	01101100
m	01101101
n	01101110
o	01101111
p	01110000
q	01110001
r	01110010
s	01110011
t	01110100
u	01110101
v	01110110
w	01110111
x	01111000
y	01111001
z	01111010

Morse Code

Aa	• —	Jj	• — — —	Ss	• • •
Bb	— • • •	Kk	— • —	Tt	—
Cc	— • • • •	Ll	• — • •	Uu	• • —
Dd	— • •	Mm	— —	Vv	• • • —
Ee	•	Nn	— •	Ww	• — — —
Ff	• • — •	Oo	— — — —	Xx	— • • —
Gg	— — •	Pp	• — — •	Yy	— • — — —
Hh	• • • •	Qq	— — • —	Zz	— — • •
Ii	• •	Rr	• — •		

Pigpen chart



Cypher Wheel

