



Caesar Cipher Challenge

After further analysing the USB device, BYTE have found more data. There are multiple secret messages, which we need you to help us solve!

Encryption is when you change a message into a secret code so other people can't understand it if they see it. Only someone with the right secret key can change it back and read the real message, like unlocking a tiny lock on your words.

Our team have told us Mysterious Brews have used a Caesar Cipher.

Caesar Cipher:

Each letter in the alphabet is shifted by a certain number along e.g. A becomes C, B becomes D, C becomes E and so on... A paper wheel can help you with this!

Firstly spin the inner wheel so the Outer A matches the correct inner letter. Then read each letter in the secret message, and find it on the outer wheel. Then see which letter is underneath that letter and write it down.

Here are the secret messages you need to decrypt:

The Outer A should match with the inner X: **SurihvvrU Pdupdodgh lv wkh ehvw**

The Outer A should match with the inner V: **Kqzkkd bfx mjwj**

The Outer A should match with the inner T: **CCP mvylcly**

The Outer A should match with the inner P: **Hp wzgp epl**

The Outer A should match with the inner N: **Gnetrg gur xrggyrf**

Now you have decrypted your messages, have a go at making your own secret message.

- Spin the inner wheel to a random point, making sure the inner and outer letters line up.
- Note which inner wheel letter touches the outer wheel A.
- This time work inner outwards, so if your word is "FOX", look at the letter F on the inner wheel, and see which outer wheel letter is touching it – write that outer letter down and repeat for the whole word.
- Once you have written down a couple, swap with your friends and decrypt their messages!