# Cracking the codes worksheet

## Task 1

Ciphers are used to encrypt data so that, if it is intercepted, it will be meaningless unless people know how to decrypt it.

The message below used the Caesar Cipher with a right shift of 7 to encrypt it. In order to decrypt the message, you need to shift each of the letters left by 7. Can you decrypt the secret message?

Hykbpuv PvA Jsvbk

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## Task 2

The Caesar Cipher is one of the more straightforward ciphers. Can you develop your own Cipher and create a secret message? You can then swap work with one of your friends to see if you can decrypt each other’s secret messages.

Encryption key:

Secret message:

# Stretch task

Do you think that a cipher which is generated by a computer can ever be truly random? Explain your reasons. How could the use of ‘truly random numbers’ be used in a cipher to increase the difficulty in cracking it?