Cryptography

Cryptography

* Cryptography is derived from the Greek work 'kryptos'

* Kryptos means 'hidden' or 'secret'

TOP SECRET

Cryptography

* Cryptography is thought to date back to the Egyptians and their use of hieroglyphics
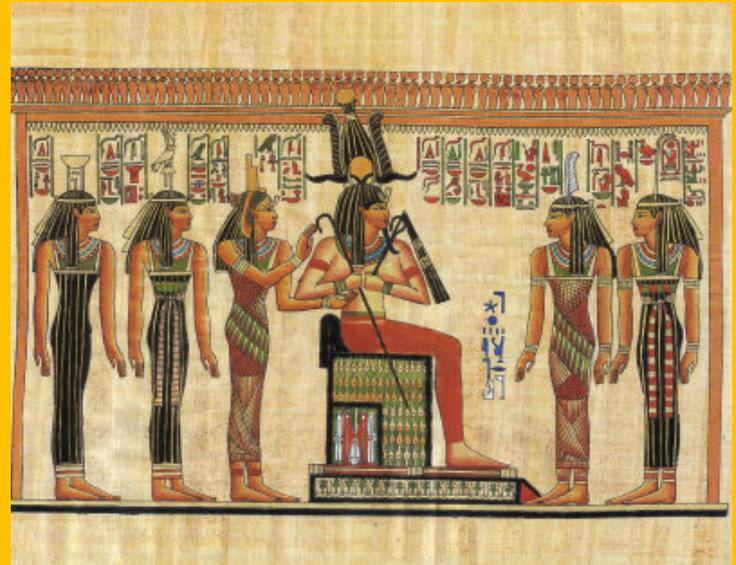
Cryptography

* Hieroglyphics were complex pictograms

* At the time, the meaning of the hieroglyphics were known only by a few

Cryptography

What does this hieroglyphics message say?

Cryptography

You can only understand this Message if you have the code or the key to 'unlock' or decipher it.
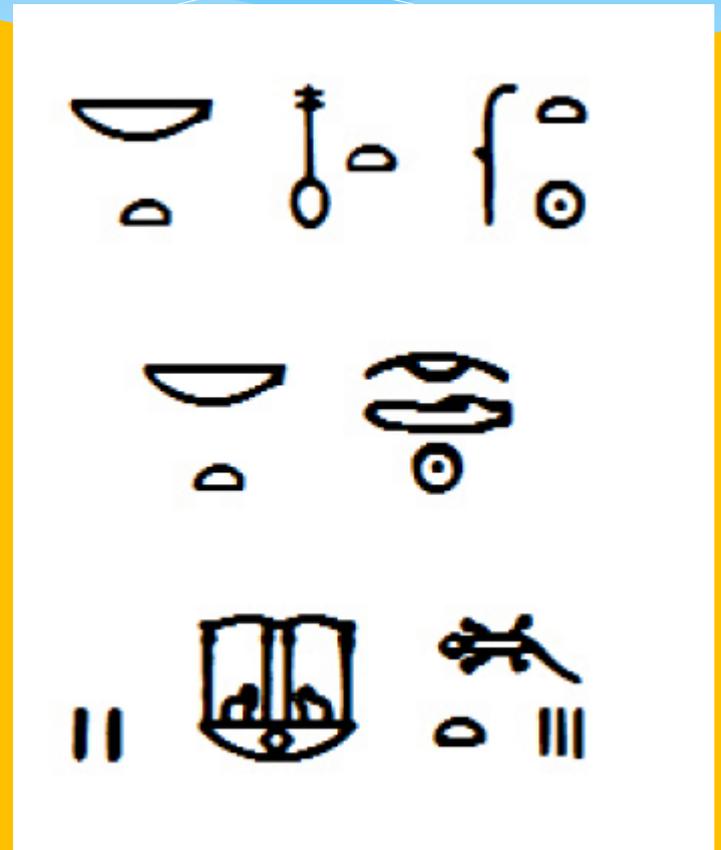
Cryptography

* Julius Caesar developed the first modern cipher

* It is know as the 'Caesar cipher'

Cryptography

* Each character in the message is replaced by the character three positions ahead of it in the alphabet
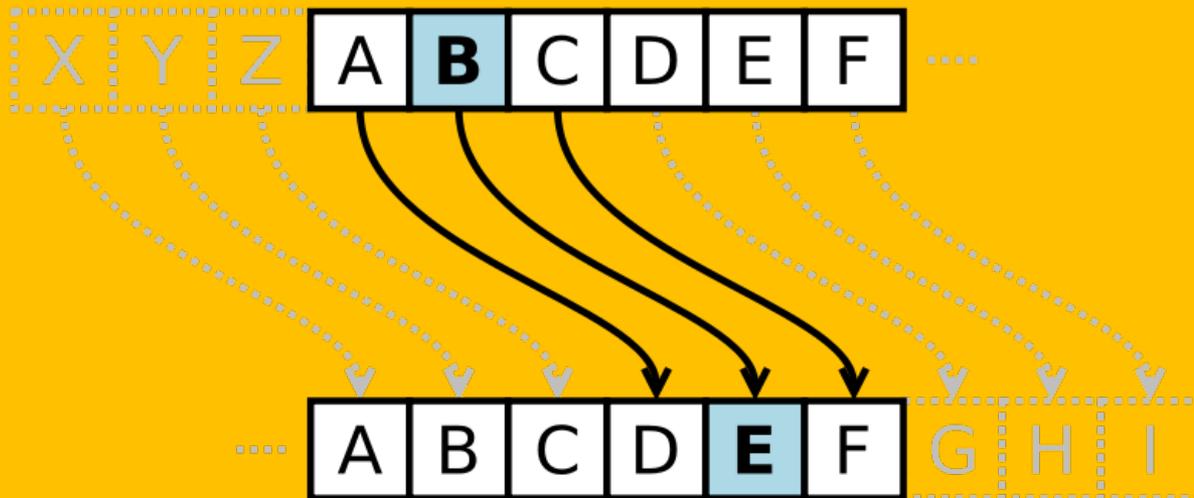
Cryptography

A ⟶ D

B ⟶ E

G ⟶ ?

Z ⟶ ?

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

Caesar cipher

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

Decode the following message:

FURVV WKH ULYHU WRQLHKW

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

The original message was:

CROSS THE RIVER TONIGHT
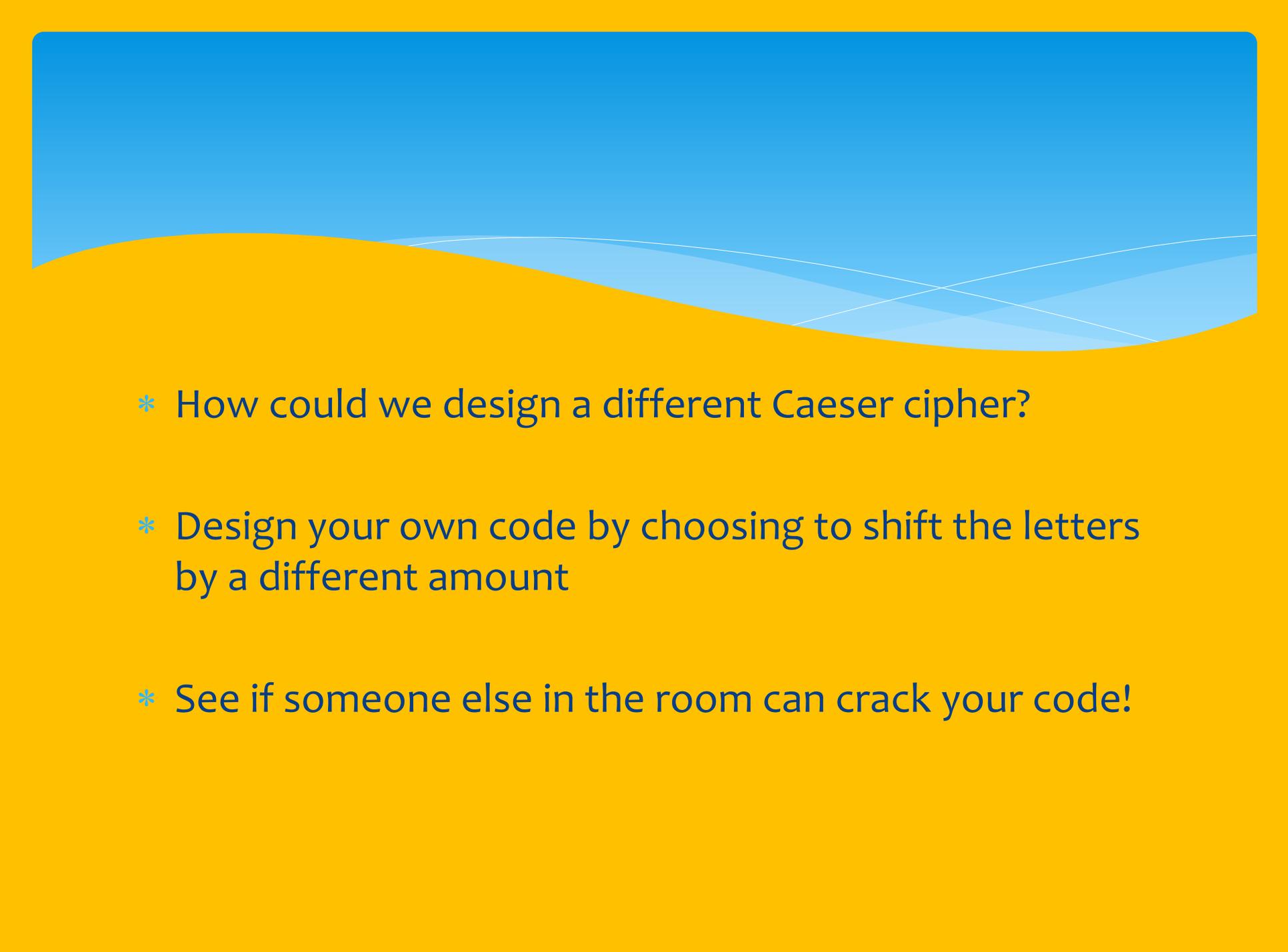
* How could we design a different Caeser cipher?

* Design your own code by choosing to shift the letters by a different amount

* See if someone else in the room can crack your code!