

WELCOME



Caesar Cipher - Encryption

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
D	E	F																							

Julius Caesar used a simple substitution Cipher to send messages to his troops. He used a very simple rule to replace each letter with another letter from the alphabet. He substituted each letter by the letter that was 3 places further along in the alphabet, so that “a” was replaced with “D”, “b” with “E” and so on

Tasks

1. Copy out the table above and complete it to show what each letter represents (is enciphered as) using this system.
2. Decode this message – ZHOO GRQH
2. Using the Caesar Cipher above, change (encode) the name of your new school – The Bolsover School.
4. Create a Caesar Wheel (Using the template title ‘Caesar Wheel’) for someone to use when decoding a message.
5. Find all of the key words on this slide and explain what they mean. EG. Decode

Challenge Task

Write a message of your own, and encipher it using the Caesar Wheel. Hand the secret message to a member of your family, and get them to decipher it.

Finally, write an article to discuss how good this cipher is at protecting messages.

Algorithms

An **algorithm** is a written step of **instructions** that is similar to normal writing, but does not need to be grammatically correct.

An example could be:

Put bread in toaster

This should read 'put a slice of bread in to the toaster'

Each separate instruction should be on a new line.

Task: I want you to create an algorithm to explain to a robot how to make toast for breakfast with optional toppings of butter & jam so you may need to ask questions. The algorithm should be at least 8 lines long.



Business Studies – Drinks challenge

Task: Create a healthy new soft drink for children.

You must decide upon a name, create a logo and a catchy slogan, decide the price and explain your choice of drink. Also you must draw what the can will look like.

A good logo is important as it helps the customer associate it with your product. Can you recognize the logo's below from just a section of the picture?

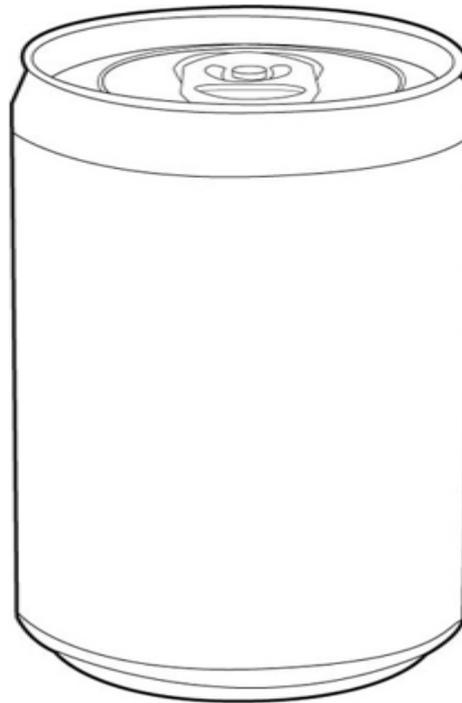


Answers: Subway, Apple, Coca-Cola

On the next slide are 4 boxes that you must write your ideas and reasons in.
Plus the template of the can that you must design for your new drink.

**IDEAS OF NAMES AND
FLAVOURS**

**CHOSEN NAME AND
FLAVOUR, GIVE REASONS
FOR YOUR CHOICES.**



**WHAT WILL THE SLOGAN
FOR YOUR DRINK BE?**

PRICE CHOSEN AND WHY