

# 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?

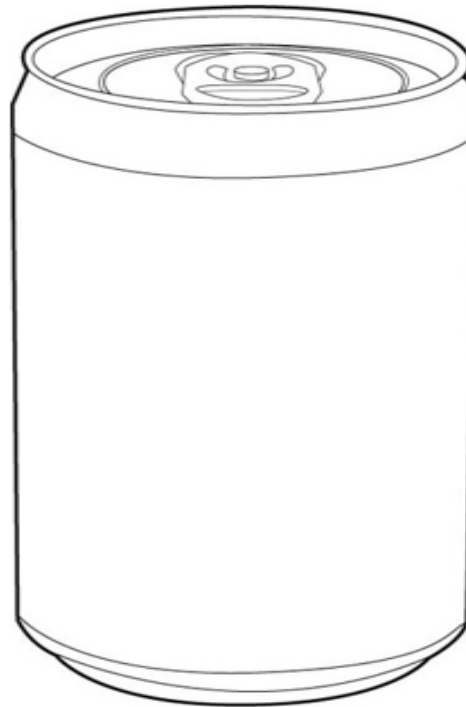


Answers: Subway, Apple, Coca-Cola

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**

