

Code Creation Exercise

Having seen the FUNCode, you are aware that a code is simply a different form in which to display information. For this activity, in trios, you will be developing your own **binary** code.

Introductory Task

You are to start by thinking of a coding method you could develop and then:

As a team you will:

- determine the number of bits you wish to use in your code, explaining why you chose that number. One of the key things that I want to see from you is some creativity in the way that you create your code, keeping it efficient in terms of both bit size and operation, which are competing factors. Try to be clever!
- develop a system to explain the encoding and decoding of messages with your code, and describe the features of your code that make it **easy** to use, but **difficult** to decipher.
- convert a common phrase into coded form using your code. Your phrase **MUST** be familiar, and must have a minimum of 7 words. For example, you could choose the phrase “The grass is always greener on the other side.” Try to select a message that you think will **NOT** be too easy for someone else to decipher, but that will not be too obscure also.

Submission

You will be submitting your original, personal codes in one document:

- It will contain all of the information for the first two bulleted items above
- The original message that you encoded. Ensure that you provide clear and complete explanations on each aspect listed above.
- The message in coded form.