**Coding Text Worksheet**

**ALL pathways should do Tasks 1 & 2a. Secure pathway students should also do Task 2b. Confident and Exceptional pathway students should do all tasks.**

**Task 1) Use the ASCII code sheet to decode this message:**

01001000 01100101 01101100 01101100 01101111 00100000

01010111 01101111 01110010 01101100 01100100 00100001

**Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 2a) Use the ASCII code sheet to encode this message into binary:**

8 bits make a byte

**Task 2b) Use the ASCII code sheet to encode your own short message into binary (include some capital letters and punctuation):**

**Task 3) The ASCII code uses 8-bit binary numbers to represent text characters. Find out (or work out!) how many different 8-bit binary numbers are possible.**

**Extension Task) The ASCII coding system has a serious drawback and so was replaced by a new system called Unicode. Find out:**

1. **the main difference between ASCII and Unicode**
2. **what Unicode makes possible that ASCII can’t.**