



KS3 Unit 7 Lesson 4 The Language of Computing

Worksheet

1. Binary Code

Hello = 01001000 01100101 01101100 01101100 01101111

Where's the o?

Where's the e?

How many bits create one letter?

2. Match the term with the correct digital representation and the correct number word.

- Mega (M)
- Giga (G)
- Tera (T)

- 1,000,000
- 1,000,000,000,000
- 1,000,000,000
- 1,000

- One thousand
- One million
- One trillion

3. What do these represent?

- 1000 Bytes = 1 _____
- 1000 Kilobytes = 1 _____
- 1000 Megabytes = 1 _____
- 1000 Gigabytes = 1 _____

Gigabyte

Terabyte

Kilobyte

Megabyte



4. Crack these two codes.

01101100 01101001 01110110 01100101 01110010 01110000
01101111 01101111 01101100 00100000 01100110 01100011

01101000 01100001 01110110 01100101 00100000 01100110
01101010 01101110

5. Write your name in binary.

6. Write a (short) coded message to your partner in binary. Can they crack it?



Here's the key (ASCII) to crack the code!

00100000	space
01100001	a
01100010	b
01100011	c
01100100	d
01100101	e
01100110	f
01100111	g
01101000	h
01101001	i
01101010	j
01101011	k
01101100	l
01101101	m
01101110	n
01101111	o
01110000	p
01110001	q
01110010	r
01110011	s
01110100	t
01110101	u
01110110	v
01110111	w
01111000	x
01111001	y
01111010	z