

KS3 Computing



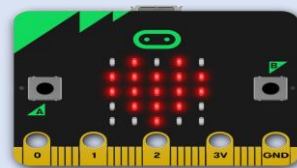
Bolton
University Collegiate School



Professional

Responsible

Loyal



**PROGRESS
TO YEAR
KS4**

Applying
programming
skills with
physical
computing

Introduction
of
cybersecurity

**Summer
Term**

Representations
– going
audiovisual

Data science

**Spring
Term**

Media –
Animations

Python
programming
with
sequences of
data

**Autumn
Term**

**YEAR
9**

Introduction
to Python
programming

Mobile app
development

**Summer
Term**

```
print("What's your name?")
name = input()

while name != "Hedy":
    print("Try again Hedy")

name = input()

print("Hello", name)
```



ASCII Code: Character to Binary

0	0011 0000	0	0100 1101	0	0110 1001
1	0011 0001	1	0100 1010	1	0110 1010
2	0011 0010	2	0100 1011	2	0110 1011
3	0011 0011	3	0100 1100	3	0110 1100
4	0011 0100	4	0100 1101	4	0110 1101
5	0011 0101	5	0100 1110	5	0110 1110
6	0011 0110	6	0100 1111	6	0110 1111
7	0011 0111	7	0101 0000	7	0111 0000
8	0011 1000	8	0101 0001	8	0111 0001
9	0011 1001	9	0101 0010	9	0111 0010
A	0011 1010	A	0101 0011	A	0111 0011
B	0011 1011	B	0101 0100	B	0111 0100
C	0011 1100	C	0101 0101	C	0111 0101
D	0011 1101	D	0101 0110	D	0111 0110
E	0011 1110	E	0101 0111	E	0111 0111
F	0011 1111	F	0101 1000	F	0111 1000
G	0100 0000	G	0101 1001	G	0111 1001
H	0100 0001	H	0101 1010	H	0111 1010
I	0100 0010	I	0101 1011	I	0111 1011
J	0100 0011	J	0101 1100	J	0111 1100
K	0100 0100	K	0101 1101	K	0111 1101
L	0100 0101	L	0101 1110	L	0111 1110
M	0100 0110	M	0101 1111	M	0111 1111
N	0100 0111	N	0110 0000	N	0110 0000
O	0100 1000	O	0110 0001	O	0110 0001
P	0100 1001	P	0110 0010	P	0110 0010
Q	0100 1010	Q	0110 0011	Q	0110 0011
R	0100 1011	R	0110 0100	R	0110 0100
S	0100 1100	S	0110 0101	S	0110 0101
T	0100 1101	T	0110 0110	T	0110 0110
U	0100 1110	U	0110 0111	U	0110 0111
V	0100 1111	V	0110 1000	V	0110 1000
W	0101 0000	W	0110 1001	W	0110 1001
X	0101 0001	X	0110 1010	X	0110 1010
Y	0101 0010	Y	0110 1011	Y	0110 1011
Z	0101 0011	Z	0110 1100	Z	0110 1100
[0101 0100	[0110 1101	[0110 1101
\	0101 0101	\	0110 1110	\	0110 1110
]	0101 0110]	0110 1111]	0110 1111
^	0101 1000	^	0111 0000	^	0111 0000
_	0101 1001	_	0111 0001	_	0111 0001
`	0101 1010	`	0111 0010	`	0111 0010
{	0101 1011	{	0111 0100	{	0111 0100
	0101 1100		0111 0101		0111 0101
}	0101 1101	}	0111 0110	}	0111 0110
~	0101 1110	~	0111 0111	~	0111 0111
DEL	0101 1111	DEL	0111 1000	DEL	0111 1000

Representations
– from clay to
silicon

Developing
for the Web

processor



memory



storage



Straight
Curved
Freehand



**YEAR
8**

**Autumn
Term**

Media –
Vector
graphics

Layers of
computing
systems

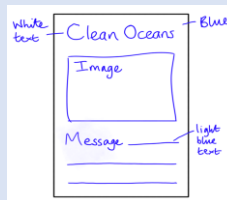
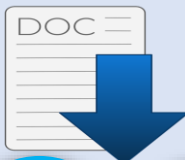
**Spring
Term**

Modelling
data using
spreadsheets

Programming
essentials in
Scratch – part
II

Number 1 Times Number 2 Answer

2	*	1	2
2	*	2	



```
Untitled - Notepad
File Edit Format View Help
<!DOCTYPE html>
<html>
<body>

<h1>My First Headings</h1>

<p>My first paragraph.</p>

</body>
</html>
```

**Summer
Term**

Programming
essentials in
Scratch – part
I

Using media –
Gaining
support for a
cause

**Spring
Term**

Networks
from
semaphores to
the Internet

Clear
messaging in
digital media

**Autumn
Term**

**YEAR
7**

