

Ready for your first computer program? I hope so!

This sheet contains all the information you'll need - **read it carefully** but don't hesitate to ask for help!

PRESS [F2] to go to the **FUZE BASIC editor** and enter the code below in **RED**:

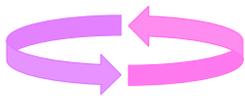
```
PRINT "Hello World" Prints what is in the speech marks
END Ends the program properly
```

**RUN** this with [F3]. **IMPORTANT:**  
**THE COMPUTER WILL ASK YOU TO SAVE.**  
Please enter your initials and hit enter.

Next, **change** your code to look like the code below.

PRESS [F2] to go back to the **FUZE BASIC editor**

Let's try a **LOOP**. This means we want the computer to do this over and over again.



Round and round..

Next up, we must add the **REPEAT** at the end of the program. This tells the computer to go back to **LOOP**.

**IMPORTANT:** You **must** press [ESC] to **STOP** the program.

**RUN** the program! [F3]

Now, **see how** the **;** symbol changes your code.

```
LOOP Begins the loop
```

```
PRINT "Hello World "
```

```
REPEAT Returns to "LOOP"
```

```
END
```

```
LOOP
```

```
PRINT "Hello World ";
```

```
REPEAT
```

```
END
```

Phew! Looks a bit **too fast** to read. Let's **slow** things down a little.

The **WAIT** command tells the computer to **pause** for an amount of time before it continues the program. Here we tell it to wait for **1 second**.

Edit your code and **RUN** it! [F3]

```
LOOP
```

```
PRINT "Hello World ";
```

```
WAIT (1) Wait 1 second before repeating
```

```
REPEAT
```

```
END
```

Well done, you've written a fully working computer program! But we're not finished! Turn over to the next side of the sheet to extend our project - This is where it starts getting *really* cool.

Try some different words and phrases - It is **your** program, after all!

# FUZE BASIC

## Beginner's Worksheet: **1b** "Hello World"

Welcome back! Let's keep going. **Remember:** [F2] Returns to the **editor**, and [F3] runs the program.

This page is going to make our project a little more interesting to look at! Let's get started:

### LOOP

**INK = Green**      You don't have to use green and blue,

**PAPER = Blue**      try your favourite colours!

**PRINT "Hello World " ;**

**REPEAT**

**END**

These new commands will add some **colour** to our program.

**INK =** changes the **colour** of the **text**.

**PAPER =** changes the **colour** of the **background**. **Try your favourite colours!**

**RUN** the program! [F3]

The **FUZE** knows the name of 30 colours - they are saved in memory as **numbers**.

Try using **numbers** instead of colour names - put yourself in the computer's shoes!

<b>24</b> BROWN	<b>25</b> LIGHTBROWN	<b>26</b> ORANGE	<b>27</b> GOLD	<b>28</b> YELLOW	<b>29</b> LIGHTYELLOW
<b>18</b> NAVY	<b>19</b> BLUE	<b>20</b> TEAL	<b>21</b> CYAN	<b>22</b> AQUA	<b>23</b> LIGHTBLUE
<b>12</b> DARKGREEN	<b>13</b> GREEN	<b>14</b> BRIGHTGREEN	<b>15</b> OLIVE	<b>16</b> LIME	<b>17</b> LIGHTGREEN
<b>6</b> MAROON	<b>7</b> RED	<b>8</b> PURPLE	<b>9</b> RASPBERRY	<b>10</b> PINK	<b>11</b> LIGHTPINK
<b>0</b> BLACK	<b>1</b> DARKGREY	<b>2</b> GREY	<b>3</b> SILVER	<b>4</b> LIGHTGREY	<b>5</b> WHITE

### CLS

### LOOP

**FONTSIZE (5)**

**INK = 19**

**PAPER = 27**

**PRINT "Hello World " ;**

**WAIT ( 1 )**

**REPEAT**

**END**

**CLS** clears the screen when you run the program - this means it will start a **fresh page** every time.

This last command is lots of fun.

**FONTSIZE** allows us to make the text **bigger** and **smaller**. The number in the **brackets** tells the computer which size to make it.

The **minimum** is **(1)**, and the **maximum** is **(20)**.

Experiment with different sizes to make your program look awesome.

**Add** command to your code then **RUN** the program. [F3]

### CHALLENGES:

1. Can you make the program run very **fast**, and very **slow**?
2. Can you **add** another line of text in **different** colours? See how many lines of different colour text you can program.

Hello World    Chocolate Good!    Hello World  
 Chocolate Good!    Hello World    Chocolate good  
 Hello World    Chocolate Good!    Hello Wo  
 rld    Chocolate good!    Hello World    Chocolate  
 good!    Hello World    Chocolate good!    Hello W  
 orld    Chocolate good!    Hello World    Chocolat  
 e good!    Hello World    Chocolate good!    Hello