#### Option 10 Measuring tools

```
Choose (+h = help +i = items eg 3h):

1) Measure height
2) Measure depth
3) Measure length
4) Measure greatest depth
5) Borehole: Analyse blocks below
Back = 'q' or number + Enter:
```

### **Option 10.1 Measure Height**

The help screen indicates the 3 conditions available for measuring height.

```
Place me on floor.

Measured Height:

|×|×|×| 7. Overhead obstruction
7. NOT turtle.detect()

|×|×|×|
|×|×|×|
|5|×|×| 4. Specific block found
|×|×|×|
|×|×|
|×|×|
|×|×|
|x|×|x|
|T|×|×|

Enter to continue
```

These appear on the next screen

```
Measure using?
1) Obstruction above
2) No further blocks ahead
3) Detect specific block ahead
Type number + Enter 3
```

#### Obstruction above:

```
Method: Until obstruction above
Height measured: 7 blocks
Thank you for using 'survival toolkit'
>_
```

#### No further blocks ahead:

```
Method: Until no block detected ahead
Height measured: 6 blocks
Thank you for using 'survival toolkit'
>_
```

#### Specific block found

```
Search for? eg 'ore', 'obsidian'
> ore_

Found minecraft:diamond_ore
Height measured: 4 blocks
Thank you for using 'survival toolkit'
>
```



# **Option 10.2 Measure depth**

The help screen indicates the 3 conditions available for measuring depth.

```
Depth measurement
Place me on the floor above pit / edge

T
1|×|×|
2|×|×|
3|×|×|
4|×|×|
5|×|5|
5|×|5|
6
6
7|×|×|×|| 6. Obstruction below
Enter to continue _
```

These appear on the next screen

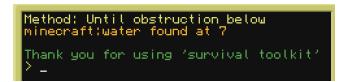
```
Measure using?
1) Water/Lava/Obstruction below
2) No further blocks ahead
3) Detect specific block ahead
Type number + Enter
```

Water / Lava / Obstruction below

```
Method: Until obstruction below
Depth measured: 9 blocks
Thank you for using 'survival toolkit'
>_
```

Add water source for testing







No further blocks ahead:

Specific block found

```
Method: Until no block detected ahead
Depth measured: 7 blocks
Thank you for using 'survival toolkit'
>_
```

```
Search for? eg 'ore', 'obsidian'
> ore_
```

```
Found minecraft:diamond_ore
Depth measured: 5 blocks
Thank you for using 'survival toolkit'
>
```

## **Option 10.3 Measure Length**



```
Length measurement

1 2 3 4 5 6 7 8 9 10

×|×|×|×|×|5| |×|×| 7. Search block
T | ×| 9. Obstruction

×|×|×|×|5|×|×| |×|×| 5. Search block
8. No block down

T = Turtle

Enter to continue _
```

```
Measure using?
1) Obstruction ahead
2) No further blocks above
3) No further blocks below
4) Detect specific block above
5) Detect specific block below
Type number + Enter _
```

```
Method: Until obstruction ahead
Length measured: 12 blocks
Thank you for using 'survival toolkit'
>
```

```
Method: Until no block detected above
Length measured: 10 blocks
Thank you for using 'survival toolkit'
```

```
Method: Until no block detected below
Length measured: 11 blocks
Thank you for using 'survival toolkit'
>_
```

```
Method:Until search: 'ore' above met
Length measured: 6 blocks
Found minecraft:diamond_ore
Thank you for using 'survival toolkit'
>
```

```
Method:Until search: 'ore' below met
Length measured: 4 blocks
Found minecraft:diamond_ore
Thank you for using 'survival toolkit'
>
```

# Option 10.4 Measure Greatest depth

This function measures the greatest depth of a lake, river etc





It removes the water plants as it goes to ensure accurate readings

If you know the width of the water select option 1 Player entered.

Measure using? 1) Player entered 2) No further water below Type number + Enter 2\_

If width not known choose option 2 No further water below.

This will cause the turtle to cross the water for measurement purposes first, then dive down and go along the bottom of the water.

```
Oreatest depth measured: 6
Width of water: 27
Thank you for using 'survival toolkit'
>_
```

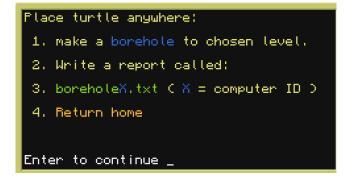
### Option 10.5 Borehole: Analyse blocks below

This function digs down to a chosen level, recording the block name (or air / water / lava) as it goes.

At the base it writes a file called "boreholeX.txt" where the X is substituted by the ID number of the turtle.

It then returns to the surface

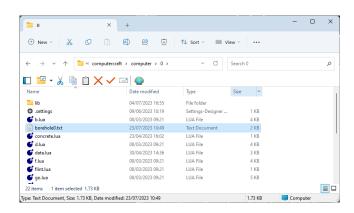
Help screen:



Enter current level and level to descend

Current level (F3-)Y coord)? **66** Go down to level? (64 to -59) **-59**\_

Text file in Windows Explorer



Screenshot of typical output viewed in Notepad

