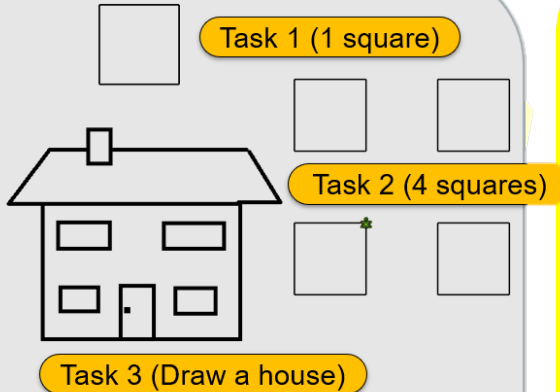


# Y8 Computing Term 1 Knowledge Organiser

```
from turtle import *
forward(100)
left(90)
right(90)
left(30)
right(45)
penup()
pendown()
Speed = 8
```

```
 pencolor("blue")
 pensize(5)
 shape("turtle")
 bgcolor("pink")
```



DO NOT SAVE YOUR PROGRAM AS **TURTLE**

## Printing Examples

```
print("Hello World!")
print("Hello",Name,"nice to meet you")
```

## Value/ Variable Assignment Examples

```
Name = "Bob"
Total = 20 +50 +34
Town= input()
Age = int(input())
```

## Loops/iteration

While Loop (Conditional Loop)	
<pre>number = 1 while number &lt; 5:     print (number)     number = number + 1</pre>	The loop will continue until a condition is met
For Loop	
<pre>for i in range (5):     print ("hello world")</pre>	Will print 5 times
<pre>for i in range (1, 5):     print i</pre>	You can specify the range
<pre>for l in (clothes):     print i</pre>	Print items in a collection

## Comparative Operators

Syntax	Example
==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater or equal to
<=	Less or equal to

## selection

```
num = int (input("please enter a number"))
if num > 10:
    print ("too high")
else:
    print ("thank you")

if num > 10:
    print ("too high")
elif num < 5:
    print ("too low")
else
    print ("thank you")
```