Here are some questions drawing on the skills needed for Paper 2 on Algorithms, Programming and Logic. Print this out and either scan or photograph to return to me for marking by 31st August.

Once you have completed Level 2, move on to Level 3.

1 Which statement?

Tick the appropriate column to indicate whether the statement is an assignment, selection, or iteration statement.

Statement	Assignment	Selection	Iteration
IF Number1 > Number2			
Number1 <- Number2			
Number1 <- Number2 + 1			
FOR Number1 <- 1 TO 10			
CASE OF Number1			
WHILE Number1 <> Number2			
REPEAT			

[3]

2 Pseudocode Algorithm

"dog", "frog", "fish"

a)

This algorithm checks to see if the password is correct, it should allow the user to try three times.

```
Correct <- False
  Count <- 0
  WHILE Correct = False AND Count < 3 DO
3
       INPUT Password
4
       IF Password = "Secret" THEN
5
           Correct <- True
6
       ELSE
7
           OUTPUT "Incorrect password"
8
           Count <- Count + 1
9
       ENDIF
10
  IF Correct = True THEN
11
       OUTPUT "Password accepted"
12
13 ELSE
       OUTPUT "You have reached the maximum number of tries"
14
  ENDIF
```

Write the output this pseudocode would produce with the following input:

[3]

b)	"Mystery", "Secret"	
c)	Rewrite this pseudocode in Python (use Grok or a Python editor to do this if you wish, then copy in here)	[2]
		[8]
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Use a variable called Counter in PSEUDOCODE to print "This message will self-destruct in seconds", then the numbers 10 down to 1 and then the word "Boom!"	า 10
Hint: this only requires 4 lines of code]	
	[4]