Python 1 Worksheet: Output, Operators and Data

Student Resource

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You will need a way to run Python for this worksheet. You can use this link or ask your teacher.

Activity 1: Hello world!

Type the Python program below into the Python interpreter and run it.

```
print("Hello world!")
```

Did it work or did you get an error? If you encounter an error message, read it and try to fix the problem. Use the list to check for common errors and tick if you find yours.

Error	Tick here
Misspelt `print` (this includes using capital letters)	
Missed one or both of `print`'s brackets	
Using square brackets instead of round brackets	
Missed one or both of the quotation marks around `"Hello world!"`	

Activity 2: Common Errors

These are common errors in Python. Even if you notice the error immediately, try each of them and make a note of the error message. This will help you if you accidently make the same error later.

Python code	Result	Explanation
`PRINT("Hello world!")`		
`print("Hello world")`		
`print("Hello world!"`		

Activity 3: Mathematical Operators

Programming languages can do mathematical calculations for you. Here are some of Python's mathematical operators. Some you will recognise but others will need investigation. Find out what each of these operators does by trying to print some expressions. If you aren't sure, you might need to try a few different values. Fill in the output and description for each operator and example.

Operator	Example	Output	What does this operator do?
+	`print(17 + 3)`		
-	`print(20 - 11)`		
*	`print(15 * 3)`		
/	`print(11 / 5)`		
//	`print(11 // 5)`		
	`print(17 // 5)`		
%	`print(11 % 5)`		
	`print(17 % 5)`		

Operator	Example	Output	What does this operator do?
**	`print(10 ** 2)`		
	`print(2 ** 3)`		

Activity 4: Data Types

What data type are each of these values?

Value	Data Type
-20	
0	
1.0	
"100"	
True	
"True"	

Activity 5: Investigation Task

Find out what these lines of Python output, don't guess!

Code	Output	Explanation
`print(10 + 15)`		
`print("10" + "15")`		
`print("10 + 15")`		