

# AS and A LEVEL COMPUTER SCIENCE

## KS4-KS5 Transition Guide

### Checkpoint Task

#### *Instructions and answers for teachers*

*These instructions should accompany the OCR resource 'Problem Solving and programming' KS4-KS5 Transition guide which supports OCR A Level Computer Science.*

#### Problem solving and programming

This task is a 'choose your own adventure' style activity where students develop a story application that changes depending on input from the user.

Give the students the 'dragon realm' task over at

<http://inventwithpython.com/chapter6.html>

Students should be able to independently figure out what is going on and extend the scenario using their own functions.

Students should be able to draw a flowchart of their story either before or after they have written the program.

You may adapt the task below as you see fit with students.

The guide below covers object orientation in Python:

<http://www.pythonschool.net/oop/introduction-to-object-oriented-programming/>

#### Extension

Allow the user to create their own unique character where they choose the class from a list, but give it their own name and stats.

**ABC** – This activity offers an opportunity for English skills development.

**123** – This activity offers an opportunity for maths skills development.



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