GCSE Computing (OCR)

What is GCSE Computing?

The course gives students a real, in-depth understanding of how computer technology works. Students will no doubt be familiar with the use of computers and other related technology from their other subjects and elsewhere. However, this course will give them an insight into what goes on 'behind the scenes', including computer programming.

The course will develop critical thinking, analysis and problem-solving skills through the study of computer programming, giving students a fun and interesting way to develop these skills, which can be transferred to other subjects and even applied in day-to-day life. In this respect, the course provides excellent preparation for students who want to study or work in areas that rely on these skills, especially where they are applied to technical problems. These areas include engineering, financial and resource management, science and medicine.

```
    1 import turtle

     __import__("turtle").__traceable__ = False
   4 def draw multicolor square(t, sz):
         """Make turtle t draw a multi-color square of for i in ["red", "purple", "hotpink", "blue"]:
              t.color(i)
              t.left(90)
p 11 wn = turtle.Screen()
                                     # Set up the window and its attributes

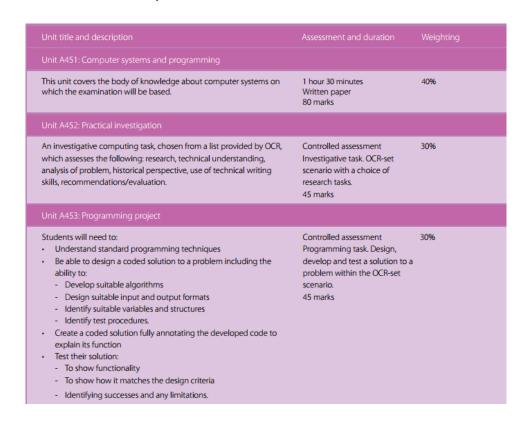
    12 wn.bgcolor("lightgreen")

• 14 tess = turtle.Turtle()
                                      # Create tess and set some attributes
15 tess.pensize(3)
• 17 size = 20
                                      # Size of the smallest square
• 18 for i in range(15):
      draw_multicolor_square(tess, size)
size = size + 10  # Increase
                                   # Increase the size for next time
# Move tess along a little
• 21
         tess.forward(10)
         tess.right(18)
                                      # ... and give her some extra turn
• 24 wn.mainloop()
```

The GCSE Computing qualification provides learners with:

- Gives learners a real, in-depth understanding of how computer technology works
- Provides excellent preparation for higher study and employment in Computer Science
- Develop critical thinking, analysis and problem-solving skills.

What will I study?



What are the entry requirements?

This is an extremely challenging qualification which will stretch the highest achievers. Students will need to be very enthusiastic and highly motivated in order to be successful on this course. Students will need to be prepared to carry out independent research in order to assist them in the completion of this qualification.

Progression after the Course:

The course provides excellent preparation for higher study and employment in the field of computer science. The increasing importance of information technologies means there will be a growing demand for professionals who are qualified in this area. Students who've taken a GCSE in Computing and who then progress to study the subject at A Level or university will have an advantage over their colleagues who are picking up the subject at these levels.

For more information contact Mr Bunn or Mr Ridney. Take a look at the OCR website: http://www.ocr.org.uk/qualifications/gcse-computing-j275-from-2012/