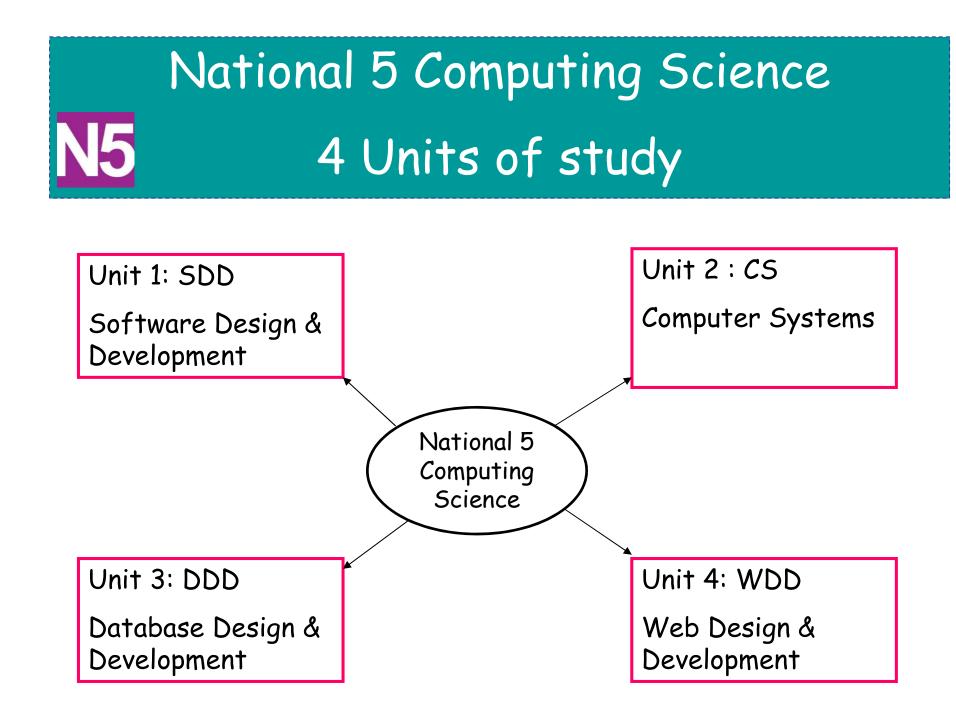
National 5 Computing Science Family Learning

Welcome!

Learning Intentions

- ✓ Explain the course structure
- ✓ Explain the course assessment
- ✓ Identify key subject milestones
- Demonstrate how to answer a National 5 Computing Science question
- \checkmark Answer any questions relating to the course



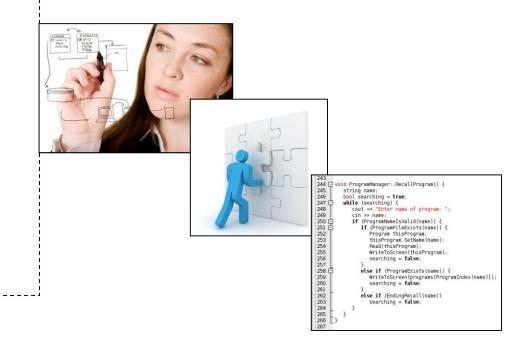
National 5 Computing Science The Course

The course contains 4 units of study.

Unit 1 is called Software Design and Development (SDD).

Pupils will learn about

- the software development process
- designing programs
- coding programs
- testing programs
- evaluating programs



National 5 Computing Science 5 The Course

Unit 2 is called Computer Systems

Pupils will learn about:

- Data representation
- Computer structure
- Environmental impact
- Security Precautions

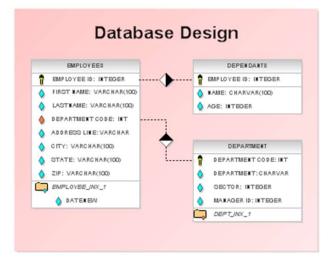


National 5 Computing Science 5 The Course

Unit 3 is called Database Design & Development

Pupils will learn how:

- to design a database
- to implement a database
- to use linked tables
- to draw ERD diagrams
- to write SQL



National 5 Computing Science 5 The Course

Unit 4 is called Web Design & Development

Pupils will learn

- how to design a web page using wireframes.
- how to code a web page using HTML tags
- how to put style onto a web page using CSS





National 5 Computing Science Course Assessment

The National 5 Computing Science course is assessed in 2 ways:

Assignment (50 marks - 31%)

8 hours assignment 3 independent tasks Database Web Page Program

Externally marked by SQA Open book No teacher help Question Paper (110 marks - 69%)

2 hour exam paper in the hall marked by SQA

National 5 Computing Science Course Assessment

Question Paper Mark and Assignment added together to give total mark out of 160.

Percentage worked out then Grade awarded, roughly based on:

- >= 70% A
- >= 60% B
- >= 50% C
- >= 40% D
- < 40% No Award

National 5 Computing Science Course Milestones

End of each unit of study End of Topic Assessment

End of Nov/Beg of Dec (2 hours written paper in the exam hall)

Jan/Feb Course Practice Assignment

Feb/Mar

Course Assignment (at this time if there is any candidate not sitting the final exam then they will undertake/complete the N4 course)

National 5 Computing Science Question Paper

The Question Paper is split into 2 sections.

Section 1 has 25 marks and consists of short-answer, restricted response questions. This section allows candidates to demonstrate breadth of knowledge from across the four areas of the course.

Section 2 has 85 marks and consists of structured questions consisting of restricted and extended response. This section allows candidates to demonstrate application of knowledge and understanding when answering appropriately challenging contextbased questions from across the four areas of the course.

National 5 Computing Science Specimen Paper Examples - Section 1

1. Convert the following 8-bit binary number into denary. (1 mark)

1011 0111

```
2. The code below monitors the speed of a vehicle:

Line 5 RECEIVE speed FROM <sensor>

Line 6 WHILE speed <= 70 DO

Line 7 RECEIVE speed FROM <sensor>

Line 8 END WHILE

Line 9 SEND signal TO <alarm>
```

Describe what happens in lines 6 to 9 above if the sensor detects a value of 83 at line 5. *(3 marks)*

National 5 Computing Science Specimen Paper Example - Section 2

Specimen Paper Section 2 Question 14 - please see handout.

National 5 Computing Science Additional Resources

- BBC Bitesize
- SQA Website Past Papers and Marking schemes
- Text Book "How to pass National 5 Computing Science" (Hodder Gibson)
- Glow Computing Science teaching PowerPoints and Summary sheets



National 5 Computing Science Questions

