

Paper Reference(s)

**1185      3185**

# **Edexcel GCSE**

## **Information and Communication Technology**

Case Study

Summer 2006

- The description overleaf will be used as the context for the systems design part of the written paper of the above specifications.
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## Setting the Scene

Bolsun Community School is an 11–16 school, with 1000 pupils, 70 teachers and 30 ancillary staff. At the moment they are based in a collection of old buildings, some dating back to the 1930s. However, a brand new building is currently under construction and the headteacher, Mr Johnson, is determined to make the best use of new technologies in order to enhance both administration and teaching in the school.

The school intends to use information and communication technology methods for all school administration. A network of 320 computers is to be installed; 20 will be dedicated to administration and the remaining 300 will be used by the pupils throughout the school. All the computers will be able to access the Internet.

During the planning for the new school, health and safety issues have been given a high priority.

## Administration

The information about current pupils will be transferred from the existing system into a PUPIL\_FILE database. The information about new pupils will be collected on entry to the school and entered into the PUPIL\_FILE by administration staff.

Part of the PUPIL\_FILE is shown below.

PUPIL-ID	Forename	Surname	Date of Birth	Tutor Group
01JSMI	JOHN	SMITH	02/06/90	11.4
01FBLA	FRED	BLAKE	05/05/90	11.3
03ASAN	ARMAN	SANGHA	09/12/91	9.5
02HLUI	HAZEL	LUI	10/11/90	10.6
03DPYK	PYKE	DAVID	11/12/91	9.6
02JSCO	JASPREET	COURN	17/03/91	10.8

## Identity Cards

At the start of the school year all pupils will be issued with a plastic identity card containing a magnetic strip which will store the unique PUPIL-ID. The cards will be used to automatically register pupils at the beginning of the morning and afternoon sessions and at the start of all lessons. Pupils will ‘swipe’ their cards through a card reader as they enter rooms.

The new school will have a large learning resources area with a library and computing facilities. There will be 30 computers available for pupils to use under supervision, to help with homework and coursework. The library will have approximately 10,000 books, which pupils will be able to borrow. The identity cards will be used when pupils borrow books.

## Website

The school currently has a simple but regularly updated website, giving basic information about the school, important dates and information relating to forthcoming events. However, it is hoped that the website can be developed much more in the future.

## Departmental Information

All pupils in the school will have at least one discrete Information and Communication Technology (ICT) lesson each week and these will be taught in one of four computer suites. In addition, pupils will be given access to computers in all other subject areas.

The Science Department is particularly interested in incorporating ICT into the curriculum and all laboratories will have a range of computer facilities.

The Technology Department offers a range of different courses and they are particularly keen on using ICT to enhance pupils' learning and to help with the production of coursework.

The PE Department has decided that all pupils will wear the same shirts, shorts and tracksuits for lessons. All items will incorporate the school name and badge and pupils will be able to buy directly from the school. Information about the items in stock is stored in a PE\_STOCK\_FILE. Part of the file is shown below.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
<b>1</b>	<b>STOCK NUMBER</b>	<b>STOCK NAME</b>	<b>SELLING PRICE</b>	<b>OPENING STOCK</b>	<b>NUMBER SOLD</b>	<b>CLOSING STOCK</b>
<b>2</b>	SHI32	Shirt size 32	6.50	100	25	
<b>3</b>	SHI34	Shirt size 34	6.50	123	67	
<b>4</b>	SHO32	Shorts size 32	4.95	98	56	
<b>5</b>	SHO28	Shorts size 28	4.95	76	66	

## Other Issues

Mr Johnson is determined to ensure that parents are kept up-to-date with the progress made by their own children and that they are kept informed of the many events that take place in the school.

The school produces a termly newsletter, 'The Bolsun Gazette'. The newsletter includes information such as the successes of individual pupils, results of matches involving school teams and reports of educational visits undertaken by pupils. The newsletter is produced by a group of pupils with the help of Mrs Moore, the head of the ICT Department.

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