

Subject: *Information and Communication Studies*

Department Staff – Mr K Grey, Ms Knight, Ms T Lemmer,
Mrs M Maclean-Thomas, Ms S Price

Year 7 - Autumn Term 2009

Contents: what you will study

In year 7 you will learn many of the types of ICT that are used to help people prepare things for different audiences and purposes.

In the first term you will learn how to use a graphics package to develop a logo that represents an organisation. You will see why the design of a logo is important to make sure the right impression is given.

Following that you will design a website for an organisation. This will involve finding suitable information to put on the site and then preparing it for the website. You will need to make sure you are presenting information in a suitable way for the internet.

National Curriculum levels at which you will work

Levels 3 – 6

Skills which you will develop this term:

How to use the Internet as a source of information.

How to phrase questions and web searches so that you can find out the exact information that you require.

How to decide the purpose of information and recognise that not all information is accurate. You will also recognise that inaccurate information can be misleading.

How to use vector graphics tools in professional drawing software. In particular you will use text, ellipses, rectangles, and vector paths, as well as different strokes and fills.

How to design a website.

How to build a website using a professional web design program.

Assessment: how you will be tested this term

Parts of the work you produce for each project will be used to assess your progress.

Equipment which you will need for this terms work

You will need to ensure that you always have a pen, pencil and ruler for every lesson.

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Key words which you will need to learn for this term's work

Purpose	When you are producing a document or a presentation you need to know for what purpose you are doing it for. The purpose will help you decided what to include in it. For example if the purpose of the presentation is to make the audience laugh, you may decide to include cartoons in it.
Audience	The type of people who will see your presentation i.e. children or adults. The type of audience you will have will help you decide what type of information to put in your presentation
Network	A number of computers linked together that share resources such as printers. On a network each user has their own user name and password and their own home directory to save files.
Log off	When you use a network you log on with your own username and password. You then have access to all of your files. When you are finished using the computers it is very important that you log off properly. Other wise someone could change or delete some of your work.
Drive	A drive is an area on the network that will store data such as user files and software applications.
Password	A word that you need to keep secret so that only you can access your files in your home directory on the network
Vector graphic	A vector graphic is made up of a collection of lines rather than dots. It is easier to magnify, rotate and layer vector graphics than bitmapped graphics.
Web page	A web page is a file on a computer that be seen over the Internet. It will have links to and from other web pages.
Website	A web site is a collection of web pages that are linked together and made by the same organisation.
Hyperlink	Hyperlink is writing on a computer file that lets you jump to another page by clicking on it.

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Year 7 - Spring Term 2010

Contents: what you will study

This term you will learn how to use a spreadsheet to model simple situations and how to use a database to sort and search for information.

National Curriculum levels at which you will work

Levels 4 and 5

Skills which you will develop this term:

You will learn how to

- input data
- format data
- write formulas
- create charts
- use a spreadsheet model to make predictions
- design a questionnaire
- design searches in a database
- Make reports based on search results

Assessment: how you will be tested this term

Your assessment will be based on your success at designing and building a simple spreadsheet, and in analysing a database.

Equipment which you will need for this term's work

You will need to ensure that you always have a pen, pencil and ruler for every lesson.

Key words which you will need to learn for this term's work

Cell, Row, Column, Model, Formula, Chart, Input, Output, Variable, Label

Database	A database is a collection of data that has been structured in a useful way on the computer.
Record	All the information about one particular person or product in a database, e.g. name, gender, age etc.
Field	One single piece of information in a database, e.g. surname.
Query	A query is a question, which is asked to a computer.
Sort	The data is put in order either alphabetically or numerically.
Questionnaire	Questionnaires are lists of questions that are used to test out a hypothesis.
Hypothesis	A hypothesis is a statement made for the purpose of testing its truth.

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Year 7 - Summer Term 2010

Contents: what you will study

This term you will study how we can use sets of instructions to let computers control how processes happen. You will learn how computers are programmed to take information in, make decisions, and produce changes. This type of system is at the heart of everything from traffic lights to computer games.

National Curriculum levels at which you will work

Levels 4 - 6

Skills which you will develop this term:

You will learn how to:

Plan a sequence of instructions to control events.

Consider a range of sensors and know when different sensors are used.

Build a control system, check that it works and make corrections.

Assessment: how you will be tested this term

You will be assessed via end of unit assignments. Your level attainment will be based on this.

Equipment which you will need for this term's work

You will need to ensure that you always have a pen, pencil and ruler for every lesson.

Key words which you will need to learn for this term's work

Control system	A control system contains a computer program that makes something happen automatically. They are used in items such as video recorders and washing machines.
Procedure	A procedure is a sequence of instructions that tells a computer to do something.
Computer control model	This is a program that simulates a real life event.
Flow chart	A flowchart is a sequence of instructions. You will use it to show how a computer program works.