



Boardworks KS3 ICT: coverage of new programme of study

Boardworks KS3 ICT is ideal for teaching the new KS3 programme of study and supporting young people to fulfil the curriculum aims and opportunities. It is also closely aligned with the renewed ICT framework.

Overview

Key Concepts and ICT fundamentals are covered in **Using ICT**, which also looks at the health and safety issues of ICT use as well as the social, cultural and ethical implications. **Successful Projects** covers the analytical and evaluative processes that can be applied to solving problems with ICT. **Finding and Recording Information** looks at using a variety of data sources and extracting, recording and working with the data in the most effective way.

Communicating Information examines all forms of communication related to ICT, including graphics, e-mail, web pages and interactive presentations, and examines the most effective ways of using these methods and their appropriateness for use in various situations. **Modelling** introduces the concepts of modelling and looks at solving problems through changing variables and using spreadsheet functions and formulas. A consistent case study of planning a school disco is used throughout this unit. **Handling data** examines ways of obtaining sources of quantitative and qualitative data as well as ways of recording this data in a database and analysing and working with this data to solve problems. This unit also examines the issues around data protection and the ethical and social issues surrounding data collection.

Control introduces flow charts, procedures and systems and helps students to understand ways of solving problems through systems analysis and by breaking down complex systems into their constituent parts. **Measuring and Monitoring Data** looks at appropriate ICT methods for collecting information, such as sensors of various sorts and ways of working with this information to produce solutions. A variety of applications for ICT use in this are also demonstrated. Finally **Managing a Project** is a stand-alone unit which guides students through the entire process of a mini-project designed to solve the problem of organising and running a school parents evenings. Students learn how to think critically about finding appropriate ICT solutions for problems, and also learn about the importance of testing, reviewing and revising a solution based on user feedback.

Boardworks KS3 and the Renewed ICT Framework

Boardworks KS3 fits well into the renewed ICT framework. Below are the suggested presentations to match the new learning objectives.

Strand	Substrands	Suggested Boardworks Presentation
1 Finding Information	1.1 Using data and information sources	Finding and Recording Information Seeking information – The Tools Searching Methods Extracting The Relevant Information Noting Sources
	1.2 Searching and Selecting	Finding and Recording Information Seeking information – The Tools Searching Methods Extracting The Relevant Information Noting Sources Handling Data What makes a Good Questionnaire Creating a Database Testing a Hypothesis Data Handling Outside School Handling Personal Data Managing a Project Identify Analyse Plan Research
	1.2 Organising and Investigating	Using ICT Computer Systems Handling Data What makes a Good Questionnaire Creating a Database

		Testing a Hypothesis Finding and Recording Information Seeking information – The Tools Searching Methods Modelling Interpreting results Managing a Project Test Success Criteria Review Evaluate
2. Developing ideas	2.1 Analysing and automating processes	Control Control Devices Flow Charts Procedures Creating a system
	2.2 Models and modelling	Modelling Rules and Investigation Building a Model Interpreting Results Modelling with Spreadsheets
	2.3 Sequencing instructions	Successful projects The Project Cycle Control Control Devices Flow Charts Procedures Creating a system Managing a Project Identify

		Analyse Research Design Implement Test Review User Documentation
3 Communicating Information	3.1 Fitness for Purpose	Communicating Information Standard Documents Fonts Graphics and Images Putting a Document Together Introduction to Multimedia Interactive Presentations Introducing the World Wide Web Creating a Website HTML Publishing on the Web
	3.2 Refining and Presenting Information	Successful Projects The Project Cycle Communicating Information Standard Documents Fonts Graphics and Images Putting a Document Together Introduction to Multimedia Interactive Presentations Introducing the World Wide Web Creating a Website HTML Publishing on the Web E-mail and Attachments

		<p>Managing a Project Identify Analyse Plan Success Criteria Research Design Test Implement Review</p>
	3.3 Communicating	<p>Communicating Information Standard Documents Fonts Graphics and Images Putting a Document Together Introduction to Multimedia Interactive Presentations Introducing the World Wide Web Creating a Website HTML Publishing on the Web E-mail and Attachments</p> <p>Handling Data What makes a Good Questionnaire Creating a Database Testing a Hypothesis Data Handling Outside School Handling Personal Data</p> <p>Using ICT Working Safely</p>
4 Evaluating	4.1 Evaluate Work	<p>Successful projects The Project Cycle</p>

		Managing a Project Life Cycle of a System Identify Analyse Plan Success Criteria Research Design Implement Test Review User Documentation Evaluate
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