

# Department of Information and Communication Technology

## KS3 Curriculum

**YEAR 7**

Course Title: DESKTOP PUBLISHING

Software: Word, Publisher, Power Point

Aims:

- To use the above applications applied to Project Work.
- To integrate all other areas of the curriculum within an IT framework.

Students will learn how to use the above applications with greater detail, making decisions about what applications to use in each of their projects.

The projects will involve a variety of topics using the Internet as a resource and will single out specific areas of knowledge within the curriculum.

The following are examples:

<b>ART</b>	Painters of the Renaissance.
<b>GEOGRAPHY</b>	Comparison of the weather in different parts of the World.
<b>HISTORY</b>	Kings and Queens of England.
<b>MATHEMATICS</b>	Great Mathematicians an Ancient Greece.
<b>SCIENCE</b>	Space Travel: the first man in the Moon. What is Electricity? How is soap made?
<b>ENGLISH</b>	What is a Tragedy in Literature.

Course Title: SPREADSHEETS

Software: Excel

Aims:

- To be able to use Excel applied to Project Work
- To integrate all other areas of the Curriculum within an IT framework.

Students will learn how to use Excel, including advanced features, applied to their Projects.

Projects will involve a variety of topics using the Internet as a resource, singling out specific areas of knowledge within the Curriculum.

The following are examples:

<b>ART</b>	Comparison of the dimensions of great works of art.
<b>GEOGRAPHY</b>	Construction of tables showing variation of population in cities and countries.
<b>HISTORY</b>	The armies of the countries involved in the First World War: casualties in battles.
<b>MATHEMATICS</b>	Data Handling: Statistical Analysis of a random event.
<b>SCIENCE</b>	Data recording from experiments.
<b>ENGLISH</b>	Statistical Analysis of texts. Comparison of degrees of difficulty.

Course Title: RELATIONAL DATABASES

Software: Excel and Access

Aims:

- To be able to use the above applications applied to Project Work
- To integrate all other areas of the Curriculum within an IT framework.

Students will learn how to use Excel as a flat Database and Access as a relational Database, including advanced features, applied to their Projects.

Projects will involve a variety of topics using the Internet as a resource, singling out specific areas of knowledge within the Curriculum.

The following are examples:

<b>ART</b>	Creation of a Database of artists and their work.
<b>GEOGRAPHY</b>	Creation of a Database of countries including population, GNP, production of raw materials etc.
<b>HISTORY</b>	The United Nations: countries, events etc
<b>MATHEMATICS</b>	Recording of marks. Mail Merging for reports.
<b>SCIENCE</b>	Catalogue of resources.
<b>ENGLISH</b>	Catalogue of writers and books: Library

## COMMON ELEMENTS

All students will submit at the end of the year a project of their choice which should be documented according to the following parameters:

- **Identify:** Nature of the project with reasons for using IT.
- **Analysis:** Description of the problem.
- **Design:** Description of how IT will be used.
- **Implementation:** Presentation of the project using appropriate software.
- **Evaluation:** Critique.

MBG, Academic Year 2003/2004