

## INSET WORKSHOP : Chesterfield and London, Autumn 1998

Using the IT tools on BNSC CD-ROM     Paul Mason

Meeting the needs of the National Curriculum in Geography/Science & ICT  
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### IT

In groups of two or three explore the CD-ROM and plan an IT exercise/class assignment for a Key Stage 3 class, using the material on the CD and involving one or more of these facilities on the CD-ROM -

- Project Clipboard
- Search Tool
- Guided Tour
- Internet links/web sites

This could be done by pupils on their own or by pupils in a lesson context involving greater teacher input.

### Suggested Task:

1. Design an exercise on the theme - Is space technology really necessary?

We spend large sums of money on satellite technology. Is this money spent wisely? What are some of the benefits that satellite technology can bring to people in both rich and poor countries?

Choose (tick)	Year 7	<input type="checkbox"/>	Length of time(tick)	1 Lesson (1 hour)	<input type="checkbox"/>
	Year 8	<input type="checkbox"/>		2 Lessons	<input type="checkbox"/>
	year 9	<input type="checkbox"/>		3 Lessons	<input type="checkbox"/>

2. Use the check list of the National Curriculum requirements for IT to evaluate how your designed task matches these and to assess what other learning objectives have been met through this exercise.
3. Discuss what other materials/equipment you would consider necessary/useful for achieving these learning objectives.
4. Discuss the practical issues that would need to be taken into consideration before this exercise could be used in your school situation.
5. Either today or later consider other topics for which assignments could be developed using the CD-ROM.



**INFORMATION TECHNOLOGY Key Stage 3 PROGRAMME OF STUDY**

**Check List**

Reference: SCAA (now QCA) 1995 "IT in the National Curriculum." HMSO Publications © Crown Copyright. Licence issued by HMSO Copyright Unit

Common requirements across all Key Stages: **Information Technology capability**

IT capability is characterised by an ability to use effectively IT tools and information sources to analyse, process and present information, and to model, measure and control external events. This involves:

using information sources and IT tools to solve problems	
using IT tools and information sources, such as computer systems and software packages, to support learning in a variety of contexts	
understanding the implications, of IT for working life and society	
pupils should be given opportunities, where appropriate, to develop and apply their IT capability in their study of National Curriculum subjects	

**IT PROGRAMME OF STUDY**

**1. pupils should be given opportunities to;**

1.a. use IT equipment and software autonomously	
1.b. consider the purpose for which information is to be processed and communicated	
1.f. discuss some of the social, economic, ethical and moral issues raised by IT	

**2. Communicating and handling information**

2.a use a range of IT equipment and software efficiently to create good quality presentations for particular audiences, integrating several forms of information	
2.b. select appropriate IT equipment and software to fulfil their specific purpose	
2.c. be systematic in their use of appropriate search methods to obtain accurate and relevant information from a range of sources	
2.d. collect and amend quantitative and qualitative information for a particular purpose, and enter it into a data-handling package for processing and analysis.	
2.e. interpret, analyse and display information, checking its accuracy and questioning its plausibility	

**3. Controlling, measuring and modelling**

3.a plan, develop, test and modify sets of instructions and procedures to control events	
3.b. use a system that responds to data from sensors and explain how it makes use of feedback	
3.c. use IT equipment and software to measure and record physical variables	
3.d. explore a given model with a number of variables and create models of their own, in order to detect patterns and relationships	
3.e. modify the rules and data of a model, and predict the effects of change	
3.f. evaluate a computer model by comparing its behaviour with data gathered from a range of sources	