

## Unit 5A Graphical modelling

- I can make shapes using a drawing (object based) program.
- I can change my shapes in different ways:
- I can move them on the screen, make them bigger and smaller, wider and narrower, rotate them.

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- I can group shapes together to make more complicated objects.
- I can use the graphics program to explore how objects can fit together and find out which arrangements look best.

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- I can move and change objects on an accurate graphical model (e.g. a diagram of our classroom with objects representing classroom furniture) to investigate different arrangements of objects and test predictions (e.g. Would there be enough space in the room to add two more desks?)

The software and ICT equipment I used in this topic was:

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My favourite piece of work in this topic was:

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I liked it because:

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The most useful thing I learned was:

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## Unit 5B Analysing data and asking questions: using complex searches

- On a database program, I search for information using two or more criteria.

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- I can use 'AND' in my searches.
- I can use 'OR' in my searches.
- I can use '=<' (less than or equal to) in my searches.
- I can use '=>' (more than or equal to) in my searches.

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- I can carry out complex searches (ones which use several criteria).
- I know how to combine search criteria to quickly find the specific information I need.

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## Unit 5C Evaluating information, checking accuracy and questioning plausibility

- When using a database, I know that it is important to check that the data makes sense.
- I know that database searches will only give good (reliable) answers if correct information was entered into the database in the first place.

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- I can check the data in a database and find errors where I know the correct answers.
- I can correct information in a database.
- I know that spelling mistakes can lead to misleading answers from database searches.
- I know that checking graphs produced by a database program can be helpful in showing up errors in the information that has been entered.

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- Even when I don't know the correct data, I can spot when information in a database doesn't make sense or when the results of a database search or a graph give an answer which is very unlikely to be correct.

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I liked it because:

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The most useful thing I learned was:

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## Unit 5D Introduction to spreadsheets

- I can enter information into the correct cell in a spreadsheet program.
- I can use a spreadsheet to make a table of data.  
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- I can enter a formula I have been given into the correct cell of a spreadsheet program.
- I can use formulas to carry out calculations using a spreadsheet program.

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- I can do calculations using complex formulas which include brackets.
- I can use the SUM function.
- When I have done some calculations on a spreadsheet I can change some data, redo the calculations and compare the results. (For example, explore what happens to the budget for a party if the price of cups and plates increases or if two more people are invited.)

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I liked it because:

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The most useful thing I learned was:

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## Unit 5E Controlling devices

- I can attach devices like lights and buzzers to a control box.
- I can use a computer to turn on and turn off devices like lights and buzzers.
- With some help, I can design an advertising display which uses lights, buzzers and may also use a motor.
- With some help from others, I can write procedures to make the lights flash in the sequence I want and the buzzers sound at the right time.

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- I can design and make an advertising display which uses lights, buzzers and may also use a motor.
- I can write procedures to control devices so they turn on and off at the right times.
- I can link the procedures to control several devices at a time so they work in combination.
- If my devices don't work in the way I planned, I can alter my procedures so my display works correctly.

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- I can design and make an ambitious advertising display.
- I can write, correct and improve procedures to control a combination of devices so they work together in the way I planned.
- I can explain the ways in which my design and equipment is limited and talk about the things it could be programmed to do and other things which could not be done with this equipment.

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I liked it because:

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The most useful thing I learned was:

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## Unit 5F Monitoring environmental conditions and changes

- I can use a sensing device attached to a computer to carry out experiments although I sometimes need some help.

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- I know how to attach a sensor to the computer.
- I know how to make the computer display the data being recorded.
- I can use sensors attached to a computer to measure environmental conditions and changes (such as temperature, sound levels and light levels).
- I choose the right sensor for the thing I want to measure.
- I can carry out my experiments without help and I am careful to make sure I do them safely.

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- I can explain some sorts of experiments for which it is really helpful to use the computer to record the measurements (datalogging).
- I draw sensible conclusions from the data that is collected.

The software and ICT equipment I used in this topic was:

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My favourite piece of work in this topic was:

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I liked it because:

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The most useful thing I learned was:

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