## Lesson Plan

Date	
Period	
Class	7.
Lesson	Lesson 1 Databases.

<b>Context of the lesson</b> Where this fits into the "Big Picture"	This unit about data handling for Year 7. It allows you to review pupils' learning from KS2 and to introduce them to some of the ICT Framework objectives. They find out what the term 'database' means and learn to access and use databases in different formats. They learn how to collect data and how to search for data effectively. They also learn how to write their own hypothesis.		
MLO for this lesson. What will pupils know/understand by the end of the lesson	<ul> <li><i>Know:</i> What a database is used for.</li> <li><i>Understand:</i>. Key database terminology</li> <li><i>Be able to:</i> Identify advantages and disadvantages of paper-based and</li> </ul>		
Taaahan	computerised databases.		
<b>Teacher</b> <b>input/Activities.</b> What the pupils should undertake with approximate timings.	Greet and settle students. Take register Access the 'Super Heroes Introduction Movie Clip' from the Teach- ict.com site. If possible, darken the room to add extra visual impact and engage the students. Show the movie clip to the students if possible via the interactive white board.	5 mins	
	Switch the lights back on and ask students to think of some Super Hero characters who have had films made about them. Write their suggestions on the board. Some examples are Superman, Spiderman, Incredible Hulk, Batman, Green Lantern, Captain America and many more.	2.5 mins	
	<u>Paired task</u> Think of a list of characteristics of super heros. Give an example if necessary to start the students off. Examples include: brave, fearless, invincible, strong, determined, optimistic, super powers	5 mins	
	Feedback as a class and write the characteristics on the board as a spider diagram.		
	<u>Individual task</u> Tell students that they are going to take a short test to find out which type of super hero they are. Get them to log onto a computer and show them how to access the link to the 'superhero' quiz on the teach-ict site. Tell them to answer the questions and then submit the quiz. At the end, they will know which superhero they are. Tell them that they must answer every question, otherwise it cannot work out their superhero correctly.	7.5 mins	
	<u>Individual task</u> Tell students to open a Word document and give it the title 'My Super Hero Character' and save it to their new database folder	5 mins	

Tell them to write the result of their 'test' and explain which character they are and what individual characteristics they think they had which identified them as that particular superhero. Tell them to use the Internet to find a picture of their superhero self and to paste this into their document. <u>Class discussion</u> Ask a selection of students which software they used to find an image of their superhero. Many will say 'Google'. Explain to them that Google is a 'search engine' Ask them how they told their search engine to find the image they wanted – draw out the concept of 'Key Words' and explain the term to them. Ask them how they think that the search engine then found the images that were suitable for them. Bring the discussion around to using the term 'database' and explain that each image was tagged with a range of key words. When they typed in their key words, the database searched every image it had stored, and then found the matching ones. <u>Teacher presentation</u> Access 'Databasesppt' show the presentation to the class. Tell them that they will need to concentrate as they will have to answer some questions at the end. Expand and explain the terms as necessary to your class. <u>Individual task</u> Hand out copies of 'databases.doc' and ask students to answer the questions on the sheet. If time, go through the answers with the class. If not, collect in for merchine	5 mins 15 mins
Pick out the 'vocab_flashcards.pdf' file and ask students to explain what the different terms mean	5 mins
Complete the sheet called 'homework.doc'	
Access to the 'Superhero' film clip via the teach-ict.com site Access to the 'Which superhero are you?' test Databases.ppt Databases.doc Vocab_flashcards.pdf Homework.doc	
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