

Lesson Plan

Date	
Period	
Class	7.
Lesson	Lesson 5 Databases

<p>Context of the lesson Where this fits into the “Big Picture”</p>	<p>This unit is 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.</p>	
<p>MLO for this lesson. What will pupils know/understand by the end of the lesson</p>	<p><i>Know:</i> the main datatypes used in a database</p> <p><i>Understand:.</i> Which is the most appropriate datatype for different fields</p> <p><i>Be able to:</i> enter data into a database via a table and a data entry form.</p>	
<p>Teacher input/Activities. What the pupils should undertake with approximate timings.</p>	<p>Greet and settle students.</p> <p><u>Starter</u> Whilst students are arriving hand out a copy of ‘lesson5starter.pdf’ either to individual students or to pairs. Students should work quietly through the starter activity whilst you are taking the register.</p> <p>Go over the answers with them and ensure that they understand why the statements were incorrect.</p> <p>Check everyone has their data capture forms ready from last lesson. Make sure they have their name on the back of them.</p> <p><u>Datatypes exercise</u> Get students to log on and access the ‘datatypes’ file Give each student a copy of ‘datatypes_task.doc’ and tell them to find out about the different datatypes and complete the tasksheet Go through the answers with them.</p> <p><u>Teacher led discussion</u> Show slides 2 and 3 from ‘datatypes.ppt’. Ask students to identify which datatypes are the most appropriate for each example.</p> <p>Show slide 4. Remind students about the data collection form they created last lesson. Remind them about the field names, they should recognise them. Ask them to identify the most appropriate datatypes for each field.</p> <p><u>Teacher demonstration</u> Explain that a database has already been created with records of many Superheroes and Supervillains. Explain that this is to ensure that there is enough data for them so that they can create queries later on.</p> <p>Show students how to make a copy of the database ‘filmcharacters.mdb’ and save it in their area</p>	<p>7.5 mins</p> <p>12.5 mins</p> <p>2.5 mins</p> <p>7.5 mins</p>

	<p>Demonstrate how to open the 'characters' table and show them the difference between design and datasheet view and how they can go between the two views. Point out the field names and the datatypes in design view. Explain the difference between the two views.</p> <p>Point out how they can tell how many records are stored in the database.</p> <p>Show them how to enter a new record directly into the table.</p> <p><u>Individual task</u> Students should enter the details from their four data collection forms into the 'characters' table.</p> <p><u>Teacher led discussion</u> Stop students and ask them how easy they found to enter the data via the table. Tell them that there is another way that they can enter the data into the table. Show them how to open the 'character' form. Demonstrate how to access a blank record and how to enter a record via the form. Explain that the data entered via the form goes straight into the table that they have just used. Ask them if they had to spend all day entering data into the database, whether they would prefer to look at the table or the form all day.</p> <p><u>Individual task</u> Ask students to swap their data collection forms with another student. Ask them to open the 'character' form and enter the four new records using the data entry form.</p> <p>Give out 'lesson5homework.doc'</p>	<p>5 mins</p> <p>5 mins</p> <p>5 mins</p>
<p>Review/Summary At least 5 minutes before end.</p>	<p>Show 'datatypes_plenary.htm' on the whiteboard. Ask students to identify the correct datatypes.</p>	<p>5 mins</p>
<p>Extension work</p>	<p>Find out which datatype would be used for telephone number and explain why.</p>	
<p>Homework</p>	<p>Lesson5homework.doc</p>	
<p>Materials required</p>	<p>Lesson5starter.doc Lesson5 starter answers.doc Datatypes.html Datatypes_task.doc Datatypes.ppt Filmcharacters.mdb (from lesson 4) Datatypes_plenary.htm Lesson5homework.doc</p>	

You may:

- Guide teachers or students to access this resource from the teach-ict.com site
- Print out enough copies to use during the lesson

You may not:

- Save this resource to a school network or VLE
- Adapt or build on this work

A subscription will enable you to access an editable version and save it on your protected network or VLE