Lesson Plan

| Date | |
|--------|--------------------|
| Period | |
| Class | 7. |
| Lesson | Lesson 3 Databases |

| Context of the lesson 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 | Know: How to use the filter tool to find a specific record Understand:. How to search for data using the filter tool within Excel | | |
| | Be able to: To reset the filter tool after completion of each search | | |
| Teacher input/Activities. | Greet and settle students. | | |
| What the pupils should undertake with approximate timings. | Starter Whilst students are arriving hand out a copy of 'lesson3starter.pdf' either to individual students or to pairs. Students should work quietly through the starter activity whilst you are taking the register. Collect homework from last lesson. Go through the answers with the class. | 7.5 mins | |
| | Teacher led discussion Explain that this project is about learning how to use databases. Remind them that databases are useful to help them search very quickly for specific records or categories of data. Explain that they will be using two different pieces of software during the project, spreadsheet software and specialist database software. This will enable them to compare which one is the most suitable for their needs. When movie makers are casting for a film and trying to find who would be best in the lead and supporting roles, they might be | 7.5 mins | |
| | looking for specific characteristics in the actor such as height or hair colour. They could use a database to search for all actors who have blonde hair and are over 6 foot tall. Tell them that they are going to be doing the same thing themselves. They are going to be using spreadsheet software to search for characters who might be wanted to play a role in the new super hero film. | | |
| | Using lesson3.xls, demonstrate how to use the filter tool on Excel to find a superhero. Show them how the arrow next to the field being filtered turns blue. Tell them to remove the filter after they have finished with a search. Ask students to save a copy of 'lesson3.xls' to their own area. Give each student a copy of 'lesson3_findasuperhero.doc' task and | | |

| | go through question 1 with them, explaining how to fill in the document. | | |
|---|--|------------|--|
| | Remind students to remove the filter after each search | | |
| | Student activity Students to log onto the computer, access the 'lesson3.xls' and save it to their area. They should then use it to find the correct superheroes for each question on the 'findasuperhero.doc' sheet. | 20 mins | |
| | Go through the answers with them using 'lesson3_findasuperhero_answers.doc' | | |
| | Teacher explanation Ask students to add two made up superhero characters of their own at the bottom of the spreadsheet. Tell them to write a set of instructions to enable these characters to be found by another person using filters. | 5 mins | |
| | Student activity Get students to swap computers and see if they can find another students' character by using their instructions | 5 mins | |
| Review/Summary At least 5 minutes before end. | In pairs, ask students to compose two sentences that summarise the lesson. Then ask a few pairs to feed these back to the class. | 5 mins | |
| Extension work | Use of filter for NOT, >, <= queries Show students how they use the filter tool to customise a search in mousing a selection of the functions above. | ore detail | |
| | Ask students to use these tools to create their own customised searche | es. | |
| Homework | Show students how to access this page (or set up a direct link for them to use) | | |
| | http://www.teach-ict.com/news/news_stories/news_databases.htm | | |
| | Tell them to read one of the news stories from the list and then write a short report explaining what the story was about and how the database was going to be used to either help people or how it could cause them problems. | | |
| Materials required | Lesson3starter.pdf Lesson3.xls Lesson3_findasuperhero.doc Lesson3_findasuperhero_answers.doc | | |

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 $$\operatorname{VLE}$$