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| Subject: ICT | | Date: 19.09.2012 | | Sequence: 1/U | Class: 7B/IT3 | Ability: Mixed | | Room:32 |
| Lesson Aim: To introduce pupils to the basic features of an access database. Pupils will be investigating simple features that encapsulate a basic database structure, including: tables/fields/rows/columns/primary keys etc. | | | | | | | | |
| Lesson Objectives:   * All pupils will be able to investigate basic features of a database. * Most pupils will be able to recognise the importance of databases & highlight the reasons as to why they are a valuable I.C.T tool. * Some pupils will be able to explain in detail key database terminology. | | | | | | | | |
| Previous Knowledge:  No previous knowledge is assumed as it is unlikely that pupils will have investigated databases during primary school ICT. | | | | | | | | |
| S.E.N:  No S.E.N noted for this particular group. | | | | | | | | |
| Differentiation Strategies:  A range of challenging questioning techniques throughout for both weaker & more able students, including plenary activity through randomization of questions. | | | | | | | | |
| Resources Required:  Database PPT. Flash files (including starter & main.)  Folder with plenary questions. Computer hardware/software | | | | | Key Vocabulary  Field/Row/Column/Headings/Database/Primary Key/Tables. | | | |
| Literacy Framework Opportunities (KS3):  Research & study skills.  Reading for meaning.  Speaking   Listening  Group discussion & interaction. | | | | | Numeracy Framework Opportunities  Selecting & interpreting data. | | | |
| Health & Safety Considerations | | | | | | | | |
| Time | Learner/Pupil Activity | | Teacher Activity | | | | Learning Outcomes (WILF) / Assessment (including National Curriculum levels where appropriate) | |
| 2:05’  2:10  2:15/2:20  2:20  2:50/2:55  3:05 | Pupils will be waiting to enter the classroom.    Pupils will be logging on.    Pupils will be listening to instructions.     Pupils will be viewing demonstration.  Pupils will be finding the application through the designated folder structure.  Pupils will be attempting to complete the starter.  Whole class discussion will formulate generating ideas regarding databases.  Pupils will be acknowledging the learning outcomes.  Pupils will be listening to instructions regarding today’s lesson.  Pupils will be familiarising themselves with the structure of a database table.  Reiteration of main activity.  Pupils will be undertaking the main task by using the internet to research different shark species.  Pupils will be saving their work and logging off.  Pupils will be sitting in lines/columns.  Pupils will be listening to instructions regarding the plenary activity.  Pupils will be passing the folder around the classroom waiting for the music to stop before answering questions.  Pupils will be rewarded for correct answers.  Pupils will be standing behind their chairs, logging off and exiting the classroom. | | Greet pupils at the entrance of the classroom with the door open. Mention that homework will be collected at the end of the lesson.    Ask pupils to enter the room, taking their usual seats and logging on.   Starter Activity   Explain to pupils that during the previous lesson (for homework) they were to investigate five different database questions. In order to test their knowledge they are to re-arrange some given answers and questions.  Provide demonstration on the interactive whiteboard briefly of the flash file.   Direct pupils to the application – RM Shared –ICT – Mr O’Keefe – Year 7 – Application. (Explain that the application is to be created independently.)  Whilst pupils are undertaking the starter activity, take register.   Discuss the starter activity – did pupils manage to drag and drop successfully?  Go through individual questions to reiterate specific points.  - What is a database? - Why do we use them? - What is their purpose?  Explain the purpose of today’s lesson. Go through the learning outcomes – what will be achieved in today’s lesson & why?  Main Activity  Explain to pupils that now we understand the purpose of a database we need to investigate the way in which they are created.  Show pupils example flash file number two – which documents the different features of a database. (Explain to pupils that they should familiarise themselves with the structural features.)  Give pupils two minutes just to acknowledge the different features using the created file.  Explain that pupils are now going to research (using the internet) different types of shark species. (Set the scenario – explain that we are planning to open a shark aquarium, but we need to know all the necessary details to create out database.  Direct pupils to the word document with the table already created. Explain that pupils are to begin finding the information for their database.  Provide support and guidance by monitoring the classroom, aiding pupils as necessary.  Explain to pupils that they should now save their work, logging off their machines.  Direct pupils (whom are sitting away from others) to sit in lines for the plenary activity.  Plenary Activity  In order to formatively assess pupil progress the plenary activity will use random questions to challenge pupil understanding.  Ask pupils who has played the game ‘pass the parcel before.’  Explain that for the final activity were going to finish by conducting a similar activity, (pass the folder.)  Explain that within the folder are several questions that relate to the lesson we have just undertaken. Pupils are to pass the folder in lines around the classroom. When the music (playing) stops, the pupil with the folder in their hand will randomly generate a question, read it to the class and attempt to answer it.  For each question correct explain that five vivo points will be rewarded.  Continue questioning answers for additional challenge.  Ask all pupils to tidy their workspace, stand behind their chairs and leave when the bell goes. | | | | AO1 & Partially AO2 – Pupils will be investigating the basic features of a database & recognising their importance. Through the use of questioning pupils will be able to highlight additional reasoning. Assessed via:  Questioning/Flash file & Discussions.  AO1 – All pupils will be able to investigate the different features of a database.  Assessed via – monitoring/discussions.  AO2 & AO3 – During the plenary activity pupils will have the opportunity to achieve objectives two and three. Most pupils will be able to expand on answers given and highlight the importance of databases. In addition, some pupils will be able to explain in detail key database terminology based upon the questions raised.  Assessed via: questioning/discussions/feedback/plenary activity. | |