

Lesson Plan

Date	
Period	
Class	Year 9
Lesson	Lesson 6 – 3D Design

Context of the lesson Where this fits into the “Big Picture”	In this unit students supplement their knowledge of working with and creating 3D designs using a software application called ‘Google Sketchup’. The skills that they learn during these lessons can be transferred to DT lessons to support further 3D and CAD design projects.	
MLO for this lesson. What will pupils know/understand by the end of the lesson (teacher)	<p><i>Know:</i> How to create the roof of their building by using an image from Google Earth</p> <p><i>Understand:</i> How to add textures from photographs onto the sides of a building designed in Sketchup</p> <p><i>Be able to:</i> Save their work into a suitable format for loading onto Google Earth</p>	
MLO for this lesson. What will pupils have achieved by the end of the lesson (pupil)	<p><i>All pupils will:</i> Have added textures to most of their building</p> <p><i>Most pupils will:</i> Have created a roof by following the instructions on the sheet. They will save their work in a suitable format for uploading to Google Earth.</p> <p><i>Some pupils will:</i> Have used their skills to create either another of the school buildings or begun to create a 3D design of their own home.</p>	
Teacher input/Activities. What the pupils should undertake with approximate timings.	<p><u>Starter</u> Use the ‘memory sequence starter.ppt’ as an aid for helping students to recall and sequence things they did during the previous lesson.</p> <p><u>Teacher demonstration</u> Demonstrate to students how to add the roof to their building. Ask a student to describe the process back to the class. Hand out a copy of Sketchup_googleearth.doc as a reference source for when they are working alone.</p> <p><u>Individual task</u> Students should log on, open Google Sketchup and find the file they were working on last lesson. They should aim to complete this task by the end of this lesson. Offer help and assistance as required. Whilst students are working, go around the room giving feedback on their work. If you are planning to upload the best piece of work for approval from Google Earth, make a decision during the lesson.</p> <p><u>Teacher demonstration</u> Show students how to save their image into a format suitable for uploading to Google Earth. Students should save their work into this format once they have finished.</p>	<p>7.5 mins</p> <p>5 mins</p> <p>35mins</p> <p>2.5 mins</p>

<p>Review/Summary At least 5 minutes before end.</p>	<p>Students should work in groups of four. Each group should be given a sheet of A4 paper and post-it notes. Each student in the group should write down three things they have learned during this project. The group should go through the post-it notes and add as many different points as possible to the A4 paper. One person from the group should take the sheet of A4 paper and go to join a different group. The new groups should compare the points from the other group with what they originally wrote.</p>	<p>10 mins</p>
<p>Extension work</p>	<p>Watch the remainder of the YouTube video and use other techniques shown to improve their design. Begin to create a 3D design of their own home. They can take photographs and bring them into next week's lesson.</p>	
<p>Homework</p>	<p>Complete the task and save their work into a format suitable for loading onto Google Images.</p>	
<p>Materials required</p>	<p>Memory sequence starter.ppt</p> <p>Sketchup_googleearth.doc</p> <p>Google Earth installed locally onto each machine</p> <p>http://www.youtube.com/watch?v=IMLmfrRsu6M - it would be useful if students could also access this video during the lesson for reference</p> <p>Photographs of one your school buildings. You will need views of each outside wall. Save these in an area which the students can access and ensure they each wall is clearly identifiable by its file name.</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:

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

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