

Lesson Plan

Date	
Period	
Class	Year 9
Lesson	Lesson 3 – 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 use an increasingly wide range of tools within a 3D design application</p> <p><i>Understand:</i> how to translate a 2D sketch on paper into a 3D design on the computer</p> <p><i>Be able to:</i> become more confident in their use of a 3D design application</p>	
MLO for this lesson. What will pupils have achieved by the end of the lesson (pupil)	<p><i>All pupils will:</i> have completed the basic house design started last week</p> <p><i>Most pupils will:</i> Have begun to develop their first house of the future using Google Sketchup</p> <p><i>Some pupils will:</i> Have completed at least one house and have begun designing a second one</p>	
Teacher input/Activities. What the pupils should undertake with approximate timings.	<p><u>Starter</u> Follow the instructions from the ‘talkabout_starter.ppt’</p> <p><u>Teacher instructions</u> Ask students to remind you about what they did last week.</p> <p>Students should get out the designs that they did for homework of 4-5 houses in their street.</p> <p>Explain that students need to continue to work through any remaining house design video tutorials from last week to ensure they have the skills they need for their mini-project.</p> <p>Once they have completed the basic house design task, they are to open a new Architectural Google Sketchup template and begin to work from their homework designs in order to create their ‘street of the future’.</p> <p><u>Individual task</u> Students should collect a pair of headphones, log on, open Sketchup and either complete their basic house design or begin working on their ‘street of the future’.</p> <p>Offer help and assistance as required.</p>	<p>7.5 mins</p> <p>5 mins</p> <p>40 mins</p>
Review/Summary At least 5 minutes before end.	Look at the work another student has created. Identify two things that are particularly good about their partner’s design. Provide constructive feedback about two things that could be improved upon or added to the design.	7.5 mins
Extension work	It is unlikely that anyone will finish all of their work during this lesson. However, Investigate the use of ‘dynamic components’ for use in Google Sketchup	
Homework	On paper, design some objects that might appear in the ‘street of the future’, for example, mail boxes, street lights, play equipment etc. Bring these designs to the next lesson.	

Materials required	Talkabout_starter.ppt Plain paper for homework
---------------------------	---

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