









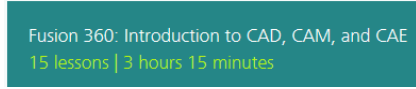





<p><b>6<sup>th</sup> Form Preparation work for Design and Technology Product Design Week 3 and 4</b></p> <p><b>des:gn</b></p> <p>NOTE: If you do not have access to a PC to download the software –No Worries – You can still watch tutorials or try <b>MOBILE APP – ONSHAPE 3D (IOS)</b></p>	<p> Watch these brief introductions to CAD Software and how it has developed.</p> <p> Where do you think we would be today without CAD?</p> <p><a href="#">The History of CAD</a>  <a href="#">First 3D Software</a>  <a href="#">What is CAD?</a>  <a href="#">CAD In schools – Why?</a></p> <p><i>Youtube Video</i>  <b>Time: 25 mins</b></p>	<p> <b>Read</b> BIM Vs. CAD Files: What's The Difference?</p> <p><b>Read</b> through the web page, considering the difference between CAD and BIM</p> <p> Consider the advantages and disadvantages of each for the Designer and the Architect.</p> <p><a href="#">CAD Vs BIM Link</a></p> <p><i>Archive Document</i>  <b>Time: 45 mins</b></p>	<p> <b>Install Fusion 360</b> onto a PC if you have access. Or Google Sketchup – (Slower PCs)</p> <p> You should use your school email address if you have one.</p> <p> You will need a reasonably quick PC to install.</p> <p><a href="#">Installation link – OnShape (also on IOS)</a>  <a href="#">Installation link – Fusion 360</a>  <a href="#">Installation link – Sketchup FREE</a>  <i>Fusion 360 Website / Sketchup Website</i>  <b>Time: 45mins</b></p>
<p> <b>Watch</b> this introductory video into what Fusion 360 is and how it can be used.</p> <p><a href="#">What is Fusion 360?</a>  <a href="#">What is Sketchup?</a></p> <p><i>Youtube Videos</i>  <b>Time: 30 mins</b></p> <p> <b>Getting started Sketchup</b> A number of brief tutorials to watch (or try out if you have managed to download the software).</p> <p><a href="#">Getting started with Sketchup – Part1</a>  <a href="#">Sketchup Tutorial – Part 2</a>  <i>Try the rest of the tutorials till you master the software.</i></p>	<p> <b>Getting started with Fusion 360</b> A number of brief tutorials to watch (or try out if you have managed to download the software).</p> <p><a href="#">Introductory Video</a></p> <p>Work through each video</p> <ul style="list-style-type: none"> <li>- Step 1: Open your first file.</li> <li>- Step 2: Manage your data.</li> <li>- Step 3: Navigate the UI.</li> </ul> <p><a href="#">Getting Started with FUSION 360</a>  Enrol on this course and complete all tasks</p> <p>  <b>Time: 3 hours 30 mins</b></p>	<p> <b>Mastery Fusion 360</b> If you are already familiar with Fusion 360 – try some of the more advanced functions to master their concepts.</p> <p><a href="#">Beginners Tutorial</a>  <a href="#">Medium Level Tutorial</a>  <a href="#">Advanced Tutorials</a> (Enrol on Course)</p> <p><b>TOP TIP:</b> Investigate using Isometric crating to help.</p> <p><a href="#">Isometric Crating</a></p> <p><b>Time: 1hr – 4 hours</b></p>	<p> <b>Watch</b> the TED talk which looks at how the future of 3D Printing.</p> <p><a href="#">4<sup>th</sup> Industrial Revolution... the future</a></p> <p><i>TED Talks – Dr Tim Minshall</i>  <b>Time: 11m</b></p> <p> <b>TASK – Using CAD Software</b>  Design one of the following products:</p> <p><b>Easy</b> – A Mobile phone case  <b>Medium</b> – A new toaster  <b>Hard</b> – A set of Headphones</p> <p><b>Time: 1hr – 6 hours</b></p>

**FOCUS : USING SKETCHUP / FUSION 360 TO DESIGN**