



Week	Week beg	Unit	Concepts/Inquiry Questions/Skills/Topics	School events and public holidays	Assessment Type	Assessment Due Date
1	T14/7	<b>Introduction to BEE and Catia</b>	Subject outline and expectations Welcome to faculty letter to be sent home Introduction to Catia – What is it? Where is it used and how good is it? Catia workbenches and navigation			
2	20/7	<b>Catia Fundamentals</b>	<ul style="list-style-type: none"> <li>Workbenches and file operations – opening/save management</li> <li>Panning Zooming and rotating</li> <li>Toolbars</li> <li>Specification tree</li> </ul>		Short response test - online	
3	27/7	<b>Part Design</b>	<ul style="list-style-type: none"> <li>Part design dialogue box</li> <li>Pad and pockets</li> <li>Shafts, revolutions and light bulb example</li> <li>Groove, Rib, Slot and holes</li> </ul>	29/7 Interhouse Athletics		
4	3/8		<ul style="list-style-type: none"> <li>Multi-section solid / combine commands</li> <li>Fillets – basic, variable radius and tritangent</li> <li>Chamfer, draft angle and variable draft angle</li> <li>Shell, add thickness and thick surface</li> <li>Transformations and patterns</li> </ul>	4/8 Yr 10,11,12 Parent-Teacher Interviews		
5	10/8	<b>Assembly Design</b>	<ul style="list-style-type: none"> <li>Intersecting and creating parts and products</li> <li>Inserting with positioning, replace, reorder and numbering</li> <li>Instantiate components and reuse pattern</li> <li>Moving, snapping and exploding</li> <li>Assembly constraints</li> </ul>	10/8 Class Photos (11&12) 11/8 Class Photos (8-10) 12/8 Exhibition holiday 13/8 Pupil-free day	Short response test - online	
6	17/8		<ul style="list-style-type: none"> <li>Coincidence, Contact, Offset, Anchor, and save management</li> <li>Flexible, Rigid, Explode, and Mixed Examples</li> <li>Section Cuts and Clash Analysis</li> <li>Part Body Benefits and Alternative to Assembly</li> </ul>			
7	24/8	<b>Drafting</b>	<ul style="list-style-type: none"> <li>Introduction to drafting</li> <li>Front view, unfolded view and projection</li> <li>Auxillary, isometric and page settings</li> <li>Secional views and call outs</li> <li>Detail view and properties</li> </ul>	27/8 Co-curricular photo day – no assessment		
8	31/8		<ul style="list-style-type: none"> <li>Dimensioning in Catia</li> <li>Arrows and area fillets</li> <li>Axis lines and center lines</li> <li>Adding text to a drawing</li> </ul>	1/9, 2/9 QCST	Short response test - online	
9	7/9	<b>Photo Realistic Imaging</b>	<ul style="list-style-type: none"> <li>Introduction to 3D rendering concepts</li> <li>Model visualisation – perspective viewing, visualisation modes</li> <li>Colours and transparency</li> <li>Creating and applying materials</li> </ul>	8/9 Yr 8 and 9 Parent-Teacher Interviews 9/9 Yr 12 block exams begin		
10	14/9		<ul style="list-style-type: none"> <li>Applying stickers</li> <li>Image rendering – environments, lights, cameras, animation and rendering</li> </ul>	16/9 Year 12 block exams finish		

		Mid Semester Vacation				
<b>1 (11)</b>	<b>5/10</b>	<b>Context Based Folio – Major Design</b>	Analysis of requirements of context based folio and learning experiences associated with the implementation model	No assessment permitted		
<b>2 (12)</b>	<b>12/10</b>		Sketching exercises – Lines, 3D shapes, rendering, light source.	13/10 Immunisations 15/10 QCAT testing (½ day)		
<b>3 (13)</b>	<b>T20/10</b>		Planning stage: <ul style="list-style-type: none"> <li>Research and investigation</li> <li>Ideation and design</li> <li>Working in Catia to draw students' own choice</li> </ul>	19/10 Pupil-free day 22/10 Yr 9 QCAT testing (½ day) 23/10 Co-curricular photo day – no assessment	Ideation submission	Draft 1
<b>4 (14)</b>	<b>26/10</b>		Drawing production week – Students will work to complete all the required parts and assemblies for the design. Teacher will be there for technical support, but it is expected that students will work at their own pace to generate a range of drawings.	29/10 Yr 9 QCAT testing (½ day)		
<b>5 (15)</b>	<b>2/11</b>		Refining stage: <ul style="list-style-type: none"> <li>Design alterations and justifications</li> <li>Design changes to be completed this week</li> </ul>			
<b>6 (16)</b>	<b>9/11</b>		Production stage: <ul style="list-style-type: none"> <li>Printing of required drawings and renderings (expect printing delays)</li> <li>Compilation of Context based folio</li> <li></li> </ul>	10/11 Yr 12 Block exams begin	Context base folio – students' own context	Final Draft Due
<b>7 (17)</b>	<b>16/11</b>	<b>Where to now?</b>	<ul style="list-style-type: none"> <li>Human modelling</li> <li>Kinematics</li> <li>Sheet metal design (only if time permits as extension item)</li> </ul>	20/11 Last day for assessment Year 10		
<b>8 (18)</b>	<b>23/11</b>		<ul style="list-style-type: none"> <li>Finite Element Analysis (structural strength analysis)</li> </ul>	25/11 Yr 11 blocks finish 27/11 Last day for assessment Years 8 & 9	Context base folio – students' own context	Final CBF Due
<b>9 (19)</b>	<b>30/11</b>	Alternative Program for Years 8 & 9 students commences Wednesday 2 December and concludes on Friday 11 <sup>th</sup> December. Instruction under the supervision of each Faculty will be delivered.				
<b>10 (20)</b>	<b>7/12</b>					