

## Year 7 Design and Technology Assessment Grid – Computer Aided Design (CAD)

YEAR 7	Understanding of the Software	Design Development	Modelling
<b>Y7.9</b>	<p>I have a <b>sound</b> understanding of the software package.</p> <p>I can use <b>some</b> of the more advanced software tools (*) with a <b>good</b> level of skill.</p> <p>I have made <b>very good</b> use of <b>most</b> of the tutorials.</p> <p>I have completed the extension tasks to a <b>high</b> standard.</p> <p>I can work independently on <b>most</b> aspects of the task.</p> <p>I can explain the task and assist <b>some</b> of the other students in my group.</p>	<p>My design meets <b>most</b> of the criteria and I can justify <b>most</b> of my decisions.</p> <p>My design shows a <b>high</b> level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates a <b>good</b> level of accuracy and precision.</p> <p>I am able to add <b>most</b> of the necessary details to develop my design.</p>	<p>I can accurately model the shape and with a <b>high</b> level of precision.</p> <p>I can accurately model <b>all</b> of the additional details with a <b>high</b> level of precision.</p> <p>I can use <b>most</b> of the software tools to <b>accurately</b> add a variety of colour <b>and /or</b> render.</p> <p>I have a <b>high</b> level of communication and presentation.</p>
<b>Y7.8</b>	<p>I have a <b>good</b> understanding of the software package.</p> <p>I can use <b>some</b> of the more advanced software tools (*) with <b>some</b> level of skill.</p> <p>I have made <b>good</b> use of <b>most</b> of the tutorials.</p> <p>I have completed the extension tasks to a <b>good</b> standard.</p> <p>I can work independently on <b>most</b> aspects of the task.</p> <p>I can explain <b>some</b> of the task and assist <b>some</b> of the other students in my group.</p>	<p>My design meets <b>some</b> of the criteria and I can justify <b>some</b> of my decisions.</p> <p>My design shows a <b>good</b> level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates <b>some</b> level of accuracy and precision.</p> <p>I am able to add <b>most</b> of the necessary details to develop my design.</p>	<p>I can accurately model the shape and with a <b>good</b> level of precision.</p> <p>I can accurately model <b>all</b> of the additional details with a <b>good</b> level of precision.</p> <p>I can use <b>most</b> of the software tools to <b>accurately</b> add a variety of colour <b>and /or</b> render.</p> <p>I have a <b>good</b> level of communication and presentation.</p>
<b>Y7.7</b>	<p>I have <b>some</b> understanding of the software package.</p> <p>I can <b>begin</b> to use <b>some</b> of the more advanced software tools (*) with <b>some</b> level of skill.</p> <p>I have made <b>good</b> use of <b>some</b> of the tutorials.</p> <p>I have completed the extension tasks to a <b>basic</b> standard.</p> <p>I can work independently on <b>some</b> aspects of the task.</p> <p>I can <b>begin to</b> explain <b>some</b> of the task and assist <b>2 or 3</b> of the other students in my group.</p>	<p>My design meets <b>some</b> of the criteria and I can justify <b>3 or 4</b> of my decisions.</p> <p>My design shows <b>some</b> level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates a <b>basic</b> level of accuracy and precision.</p> <p>I am able to add <b>some</b> of the necessary details to develop my design.</p>	<p>I can model the shape and <b>most</b> aspects have a <b>good</b> level of precision.</p> <p>I can accurately model <b>most</b> of the additional details with a <b>good</b> level of precision.</p> <p>I can use <b>some</b> of the software tools to add a variety of colour <b>and /or</b> render with <b>some</b> level of accuracy.</p> <p>I have a <b>suitable</b> level of communication and presentation.</p>

<p><b>Y7.6</b></p>	<p>I have <b>basic</b> understanding of the software package.  I <b>may/may not</b> use <b>some</b> of the more advanced software tools (*).  I have made <b>some</b> use of <b>some</b> of the tutorials.  I have completed <b>one</b> the extension tasks to a <b>basic</b> standard.  I can <b>begin</b> to work independently on <b>some</b> aspects of the task.  I <b>may/may not</b> be able to explain <b>some</b> of the task and assist <b>2 or 3</b> of the other students in my group.</p>	<p>My design meets <b>some</b> of the criteria and I can <b>begin to</b> justify <b>3 or 4</b> of my decisions.  My design <b>may/may not</b> show <b>some</b> level of originality/creativity.  I can design a product that demonstrates a <b>basic</b> level of accuracy <b>and/or</b> precision.  I am able to add <b>some</b> of the necessary details to develop my design.</p>	<p>I can model the shape and <b>some</b> aspects have <b>some</b> level of precision.  I can model <b>most</b> of the additional details and <b>most</b> have a <b>good</b> level of precision.  I can use <b>some</b> of the software tools to add a variety of colour <b>and /or</b> render with <b>some</b> level of accuracy.  I have a <b>suitable</b> level of communication <b>and/or</b> presentation.</p>
<p><b>Y7.5</b></p>	<p>I have a <b>limited</b> understanding of the software package.  I <b>may not</b> use <b>some</b> of the more advanced software tools (*).  I have made <b>limited</b> use of <b>some</b> of the tutorials.  I <b>may/may not</b> have completed <b>one</b> the extension tasks to a <b>basic</b> standard.  I can <b>begin</b> to work independently on <b>some</b> aspects of the task.  I <b>may not</b> be able to explain <b>some</b> of the task and assist <b>1 or 2</b> of the other students in my group.</p>	<p>My design meets <b>some</b> of the criteria and I <b>may/may not</b> justify <b>2 or 3</b> of my decisions.  My design <b>may/may not</b> show a <b>simple</b> level of originality <b>and/or</b> creativity.  I can design a product that demonstrates a <b>basic</b> level of accuracy <b>or</b> precision.  I am able to add <b>2 or 3</b> of the necessary details to develop my design.</p>	<p>I can model the shape and <b>some</b> aspects have a <b>basic</b> level of precision.  I can model <b>some</b> of the additional details and <b>some</b> have a <b>basic</b> level of precision.  I can use <b>some</b> of the software tools to add a variety of colour <b>and /or</b> render but this <b>may/may not</b> be accurate.  I have a <b>basic</b> level of communication <b>and/or</b> presentation.</p>
<p><b>Y7.4</b></p>	<p>I have a <b>limited</b> understanding of the software package.  I <b>need guidance</b> to use <b>some</b> of the more advanced software tools (*).  I have made <b>limited</b> use of <b>1 or 2</b> of the tutorials.  I <b>need help</b> to complete <b>one</b> the extension tasks to a <b>basic</b> standard.  I can <b>begin</b> to work independently on <b>some</b> aspects of the task.  I <b>may not</b> be able to explain <b>some</b> of the task.</p>	<p>My design meets <b>1 or 2</b> of the criteria and I <b>may not</b> justify my decisions.  My design <b>may not</b> show originality <b>and/or</b> creativity.  I can design a product but it <b>may/may not</b> be accurate.  I am able to add <b>1 or 2</b> of the necessary details to develop my design.</p>	<p>I can model the shape but <b>some</b> aspects have a <b>limited</b> level of precision.  I can model <b>1 or 2</b> of the additional details but there is a <b>limited</b> level of precision.  I can use <b>1 or 2</b> of the software tools to add colour <b>and /or</b> render but this <b>may not</b> be accurate.  I have a <b>very simple</b> level of communication <b>and/or</b> presentation.</p>

**YEAR 7 Software Tools**

(\* ) = Follow Me; Make; Colour and Render

**YEAR 7 Design/Modelling**

Toy Cube with circular holes; Electronic Product with buttons and switches; Chair