

Year 9 Design and Technology Assessment Grid – Computer Aided Design (CAD)

YEAR 9	Understanding of the Software	Design Development	CAD Modelling
Y9.9	<p>I have an in-depth understanding of the software package.</p> <p>I can use all the advanced software tools (*) with a precise level of skill.</p> <p>I have made excellent use of all the tutorials.</p> <p>I have completed the extension tasks to an excellent standard.</p> <p>I can work independently on all aspects of the task.</p> <p>I can fully explain the task and assist other students in my group.</p>	<p>My design meets all the criteria and I can fully justify my decisions.</p> <p>My design shows an excellent level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates an excellent level of accuracy and precision.</p> <p>I am able to add all the necessary details to develop my design.</p>	<p>I can accurately model the shape and with an excellent level of precision.</p> <p>I can accurately model all the additional details with an excellent level of precision.</p> <p>I can use the software tools to precisely add a variety of colour and /or render.</p> <p>I have an excellent level of communication and presentation.</p>
Y9.8	<p>I have a detailed understanding of the software package.</p> <p>I can use most of the more advanced software tools (*) with a high level of skill.</p> <p>I have made very good use of all the tutorials.</p> <p>I have completed the extension tasks to a very high standard.</p> <p>I can work independently on all aspects of the task.</p> <p>I can mostly explain the task and assist other students in my group.</p>	<p>My design meets all the criteria and I can fully justify my decisions.</p> <p>My design shows a very high level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates a very good level of accuracy and precision.</p> <p>I am able to add all the necessary details to develop my design.</p>	<p>I can accurately model the shape and with a very high level of precision.</p> <p>I can accurately model all the additional details with a very high level of precision.</p> <p>I can use the software tools to accurately add a variety of colour and /or render.</p> <p>I have a very high level of communication and presentation.</p>
Y9.7	<p>I have a sound understanding of the software package.</p> <p>I can use some of the more advanced software tools (*) with a good level of skill.</p> <p>I have made very good use of most of the tutorials.</p> <p>I have completed the extension tasks to a high standard.</p> <p>I can work independently on most aspects of the task.</p> <p>I can explain the task and assist some of the other students in my group.</p>	<p>My design meets most of the criteria and I can justify most of my decisions.</p> <p>My design shows a high level of originality/creativity and is aesthetically pleasing.</p> <p>I can design a product that demonstrates a good level of accuracy and precision.</p> <p>I am able to add most of the necessary details to develop my design.</p>	<p>I can accurately model the shape and with a high level of precision.</p> <p>I can accurately model all of the additional details with a high level of precision.</p> <p>I can use most of the software tools to accurately add a variety of colour and /or render.</p> <p>I have a high level of communication and presentation.</p>

<p>Y9.6</p>	<p>I have a good understanding of the software package. I can use some of the more advanced software tools (*) with some level of skill. I have made good use of most of the tutorials. I have completed the extension tasks to a good standard. I can work independently on most aspects of the task. I can explain some of the task and assist some of the other students in my group.</p>	<p>My design meets some of the criteria and I can justify some of my decisions. My design shows a good level of originality/creativity and is aesthetically pleasing. I can design a product that demonstrates some level of accuracy and precision. I am able to add most of the necessary details to develop my design.</p>	<p>I can accurately model the shape and with a good level of precision. I can accurately model all of the additional details with a good level of precision. I can use most of the software tools to accurately add a variety of colour and /or render. I have a good level of communication and presentation.</p>
<p>Y9.5</p>	<p>I have some understanding of the software package. I can begin to use some of the more advanced software tools (*) with some level of skill. I have made good use of some of the tutorials. I have completed the extension tasks to a basic standard. I can work independently on some aspects of the task. I can begin to explain some of the task and assist 2 or 3 of the other students in my group.</p>	<p>My design meets some of the criteria and I can justify 3 or 4 of my decisions. My design shows some level of originality/creativity and is aesthetically pleasing. I can design a product that demonstrates a basic level of accuracy and precision. I am able to add some of the necessary details to develop my design.</p>	<p>I can model the shape and most aspects have a good level of precision. I can accurately model most of the additional details with a good level of precision. I can use some of the software tools to add a variety of colour and /or render with some level of accuracy. I have a suitable level of communication and presentation.</p>
<p>Y9.4</p>	<p>I have basic understanding of the software package. I may/may not use some of the more advanced software tools (*). I have made some use of some of the tutorials. I have completed one the extension tasks to a basic standard. I can begin to work independently on some aspects of the task. I may/may not be able to explain some of the task and assist 2 or 3 of the other students in my group.</p>	<p>My design meets some of the criteria and I can begin to justify 3 or 4 of my decisions. My design may/may not show some level of originality/creativity. I can design a product that demonstrates a basic level of accuracy and/or precision. I am able to add some of the necessary details to develop my design.</p>	<p>I can model the shape and some aspects have some level of precision. I can model most of the additional details and most have a good level of precision. I can use some of the software tools to add a variety of colour and /or render with some level of accuracy. I have a suitable level of communication and/or presentation.</p>

YEAR 9 Software Tools

(*) = Sketch and Pull Tools

YEAR 9 Design/Modelling

Side profile of a Car; Truck with wheels and axles aligned