



Stage 5 Graphics Technology

Core modules: Units of work

Unit title	BBQ
Unit indicative time	9 weeks (22.5 hours)
Unit outcomes	5.1.1; 5.2.1; 5.3.1; 5.4.1; 5.5.1; 5.5.2; 5.6.1
Unit context	Students are required to research and draw a barbecue area. The emphasis is on ergonomics particularly relative heights of each of the component parts. Stylised representations rather than completely accurate detail would be sufficient.
Student's prior learning	<p>Students have used skills in freehand sketching and with grid paper to produce third angle drawings of products made in the Technology (Mandatory) course.</p> <p>Students have used <i>proDesktop</i> to produce 3D models of simple shapes with various face and edge treatments.</p>
Teaching and learning activities	<p>Students are to design a barbecue area made from bricks that will incorporate a commercially available four burner BBQ and 9 kg gas bottle. The BBQ is to incorporate a food preparation area. The following factors need to be considered:</p> <ul style="list-style-type: none">• size of commercially available burners and hotplates• size of gas bottle• height of cooking surface and food preparation areas. <p>The BBQ is to be drawn as an oblique drawing and also a rendered pictorial CAD drawing showing bricks, the burner and the bottle.</p> <p>The table and chairs sizes and heights are to be researched and an isometric drawing produced.</p> <p>The paving pattern is to be of the students own design research and should cover the following areas:</p> <ul style="list-style-type: none">• existing paving patterns• tessellations and quilting patterns (geometric patterns). <p>Once all the decisions have been made a perspective drawing is to be completed using drawing instruments. The area to be used is five metres square, show:</p> <ul style="list-style-type: none">• paving pattern• stylised table and chair showing relative heights• location and height of BBQ. <p>Correct work practices and OHS are discussed throughout the unit.</p>
Resources	<ul style="list-style-type: none">• Teacher developed worksheets to support skills required of students to complete the unit of work.• Text books.• AS1100 for dimensioning.• Internet research existing patterns and ergonomics.• Boards, tee squares and instruments.• Access to computers and computer applications.
Assessment	<ul style="list-style-type: none">• Completion of skills developing worksheets.• An accurate perspective is produced.• Detailed oblique and CAD presentation of the BBQ.• Stylised isometric of table and chairs.• Ergonomic detail is researched, presented and is appropriate.• The final presentation is of high quality.