

Year 8 Design and Technology Graphics Colour Band Descriptors

“Green” Skills Criteria - Practical	“Green” Skills Criteria - Theory
I can use the tools in 2D Design to create simple shapes.	I am able to state who Ross Lovegrove is and what he has designed.
With assistance I am able to use the strip heater to line bend my prototype.	I am able to say what CAD and CAM stand for.
With assistance I am able to use the features of the CAD programme to create text etc.	I can produce a range of design ideas.

“Pink” Skills Criteria - Practical	“Pink” Skills Criteria - Theory
I can use anthropometric data and 2D Design CAD tools to size my product.	I can use and analyse the work of Ross Lovegrove to inspire my own design work.
I can create complex shapes using 2D Design.	I can annotate each one of these ideas to explain how they work.
I can independently use colour, fill, line and boundary tools to create an image which can be manufactured.	I can identify what is meant by anthropometric data and select data appropriate to a specific user/age group.
I can accurately set up the CAD program to create an image which can be downloaded to a CAM machine.	I can generate a creative, accurate range of design ideas for my product.
I can visualise how my 2D CAD work can be realised in 3D.	I can define CAD CAM and explain why it is used.
I can safely use a strip heater to form and shape my prototype.	I can test my prototype product using a list of key criteria.
I can create backgrounds, text and headers and manipulate images using CAD.	I can create a concept ad for my product which is appropriate to an age group I define.

“Yellow” Skills Criteria - Practical	“Yellow” Skills Criteria - Theory
I can use anthropometric data and 2D Design CAD tools to size my product.	I can demonstrate how my analysis of the work of Ross Lovegrove has inspired my own design work.
I can create neat, smooth, accurate, symmetrical (where appropriate) complex shapes using 2D Design.	My annotation explains in depth how each one of these ideas will work.
I can independently identify specific colours for manufacture and fault find my own drawings.	I clearly understand what is meant by anthropometric data and select data appropriate to a specific user/age group which I then use in my design work.
I can prepare my CAD drawing for manufacture by a third party.	I can generate a creative, accurate range of design ideas for my product.
I can create a material allowance for 2D CAD work so it can be accurately realised in 3D.	I can define CAD CAM and explain how it can make my model look more professional.
I can safely use a strip heater with a jig to form and shape my prototype.	I can test my prototype product using a list of key criteria and seek the opinion of others to inform my testing.

“Blue” Skills Criteria - Practical	“Blue” Skills Criteria - Theory
My product is accurately sized for the user group I have chosen.	I can demonstrate how my analysis of the work of Ross Lovegrove has inspired my own design work.
I can create neat, smooth, accurate, symmetrical (where appropriate) realisation of my design ideas using CAD.	My annotation explains in depth how each one of these ideas will work.
I can independently identify specific colours for manufacture and fault find my own drawings, using the zoom tools to help remove overlapping lines, no closed boundaries etc.	I clearly understand what is meant by anthropometric data and select data appropriate to a specific user/age group which I then use in my design work.
I can prepare my CAD drawing for manufacture by a third party including setting up images to be printed.	I can generate a creative, accurate range of design ideas for my product.
I can create a material allowance for 2D CAD work so it can be accurately realised in 3D.	I can define CAD CAM and explain how it can make my model look more professional.
I can safely use a strip heater with a jig to form and shape my prototype.	I can test my prototype product using a list of key criteria and seek the opinion of others to inform my testing.
I can create effects in backgrounds, text and headers and manipulate images using CAD.	I can create a striking concept ad for my product which is appropriate and appealing to an age group I define.

“Salmon” Skills Criteria - Practical	“Salmon” Skills Criteria - Theory
My product is accurately sized and ergonomically correct for the user group I have chosen.	I can demonstrate how my analysis of the work of Ross Lovegrove has inspired my own design work.
My product is of a very high quality and demonstrates neat, smooth, accurate, symmetrical (where appropriate) realisation of my design ideas. It also functions as intended	My annotation and justification of my ideas is supported by written communication relating to the user and my research.
I can independently identify specific colours for manufacture and fault find my own drawings, using the zoom tools to help remove overlapping lines, no closed boundaries etc.	I clearly understand what is meant by anthropometric data and select data appropriate to a specific user/age group which I then use in my design work.
My CAD has been manufacture by a third party including setting up images to be printed without any external alterations.	I can generate a creative, accurate range of design ideas for my product. I can generate highly developed ideas communicated in a variety of ways, in some cases using CAD or 3-D modelling to express my ideas.
I have created a material allowance for 2D CAD work so it is accurately realised in 3D.	I can define all relevant areas of CAD CAM and explain the advantages and disadvantages of CAD CAM in the manufacture of prototype products.
I can safely and effectively use a strip heater with a jig to form and shape my prototype.	I can test my prototype product using a list of key criteria, seek the opinion of others to inform my testing and show how the product could be modified for future development.
I can create effects in backgrounds, text and headers and manipulate images using CAD to create a convincing concept ad.	I can create a striking, professional concept ad for my product which is appropriate and appealing to an age group I define.