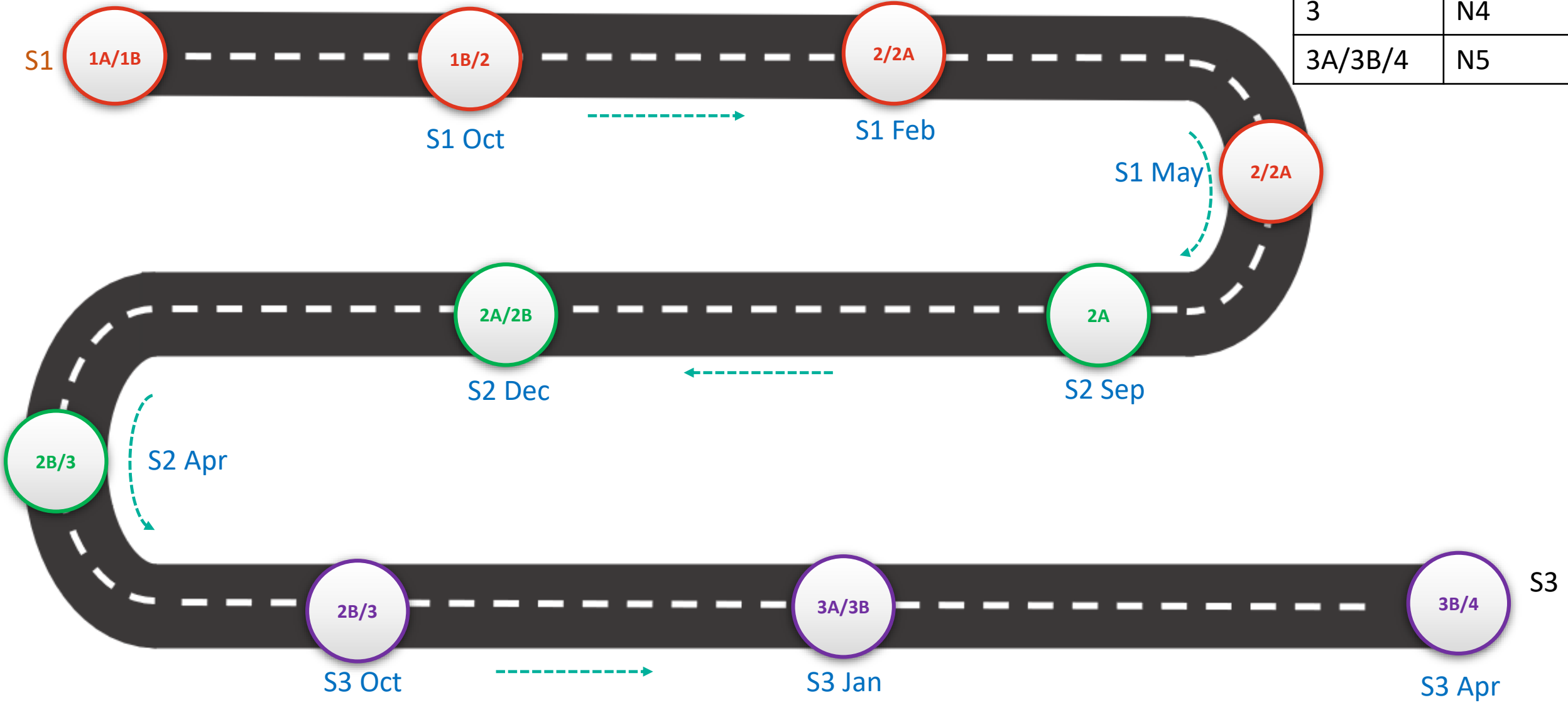




BGE Progression Framework to N5

Subject: Technical

 **Next >**

By April S3	Pathway
2B	N3
3	N4
3A/3B/4	N5



Year	Period	Course Overview	< Back 	 Next >
S1	August - December	<ul style="list-style-type: none"> Isometric sketching/ metalwork/ maths week input 		
	January - May	<ul style="list-style-type: none"> Orthographic sketching/ DTP/CAD Garden trowel/ DTP/ Ice scraper/phone holder/wooden box Isometric drawing assessment/ CAD assessment/Orthographic assessment 		
S2	August - December	<ul style="list-style-type: none"> freehand orthographic/ CAD/ DTP CAD/ DTP/ balloon powered car Freehand Orthographic sketching 		
	January - May	<ul style="list-style-type: none"> wood joints freehand isometric assessment/ Maths week input/ colour theory/ memo board/ freehand perspective sketching 		
S3	August - December	<ul style="list-style-type: none"> Freehand sketching/ CAD/ practice joints/ Design folio (gaming accessories and modelling)/ Plant pot stand/ CAD/ DTP/ Mirror frame/ Gaming accessory holder(practical) 		
	January - May	<ul style="list-style-type: none"> Technical drawings/ woodwork/ design factors/ Phone holder design folio Phone holder design folio/ small tray (practical)/ design factor assessment/ end of topic drawing assessment 		

Type of Assessment

On-Going
High Quality
Periodic



Year Group	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
51	<p>Measuring</p> <p>Metalwork</p>	<p>Isometric sketching</p> <p>Metalwork</p>	<p>Isometric sketching</p> <p>Metalwork</p> <p>Maths week input</p>	<p>Isometric Assessment</p> <p>Acrylic ice scraper (practical)</p> <p>Acrylic ice scraper (practical)</p>	<p>Desktop publishing (DTP)</p> <p>Desktop publishing (DTP)</p> <p>Orthographic sketching</p>	<p>Acrylic ice scraper (practical)</p> <p>Orthographic sketching</p>	<p>Garden Trowel (practical)</p> <p>Orthographic sketching</p> <p>Orthographic assessment</p>	<p>Acrylic phone holder (practical)</p> <p>CAD</p>	<p>CAD</p>	<p>Wooden box (practical)</p> <p>CAD assessment</p>	
52		<p>Freehand Isometric sketching</p> <p>Practice wood joints</p>	<p>Maths week input</p> <p>Woodwork</p>	<p>Freehand perspective sketching</p> <p>Woodwork</p> <p>Cross Halving Joint</p>	<p>Colour theory</p> <p>Memo board (practical)</p>	<p>Freehand Orthographic sketching</p>	<p>Freehand Orthographic sketching</p>	<p>CAD DTP</p>	<p>CAD DTP</p> <p>Candle holder</p>	<p>Balloon powered car</p>	
53	<p>Freehand sketching 1</p> <p>Practice joints</p> <p>Design folio for Gaming accessories</p>	<p>Freehand sketching 2</p> <p>Plant pot stand</p> <p>Design folio for Gaming accessories (modelling)</p>	<p>CAD</p> <p>Practice joints</p> <p>Design folio for Gaming accessories (modelling)</p>	<p>CAD</p> <p>Woodwork</p> <p>Gaming accessories holder (practical)</p>	<p>CAD DTP</p> <p>Mirror frame</p> <p>Gaming accessories holder (practical)</p>	<p>End of topic test</p> <p>Isketching CAD DTP</p> <p>Woodwork (turning)</p> <p>Design factors booklet</p>	<p>Technical drawings</p> <p>Woodwork</p> <p>Phone holder design folio</p>	<p>Technical drawings</p> <p>Woodwork</p> <p>Phone holder (practical)</p>	<p>Technical drawings</p> <p>Small tray</p> <p>Design factors</p>	<p>Table centre piece</p> <p>Design factors assessment</p>	

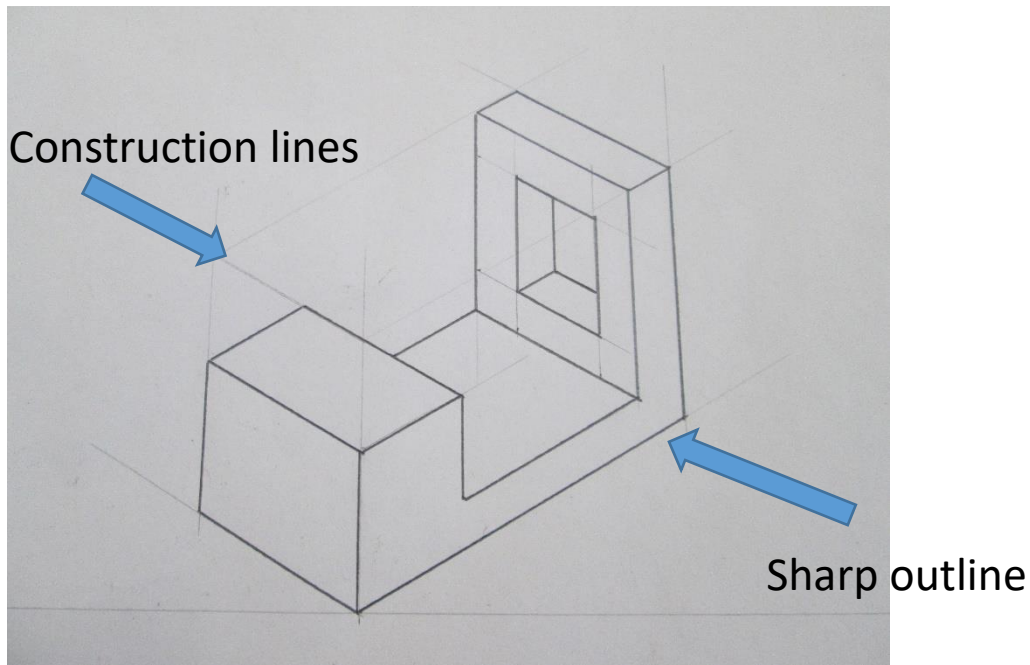
S1 Aug-Dec

Isometric assessment

The Isometric assessment in S1 is marked out of a total of **20** marks.

The allocation of marks is as follows -

- Drawing is accurate in terms of size and layout
- There is evidence between a construction line and an outline
- All areas have been lined in accurately and there is no evidence of “double lines”



Everyone

- Drawing shows some evidence of accuracy
- Drawing shows some differentiation between outlines and construction lines
- Drawing shows some care to angles used
- Drawing lacks visual appeal

Most

- Drawing shows good evidence of accuracy
- Drawing shows good differentiation between outlines and construction lines
- Drawing shows good care to angles used
- Drawing shows visual appeal

Some

- Drawing shows a high level of accuracy
- Drawing shows excellent differentiation between outlines and construction lines
- Drawing shows very good care to angles used
- Drawing shows visual appeal

Garden Trowel

Everyone

- Most bend lines on the handle are fairly accurate according to the given drawing
- Blade is cut, filed and shaped reasonably accurately
- Dip coating and painting is reasonably neat without any runs and in the correct area (blade only)
- Riveting is fairly solid and secure

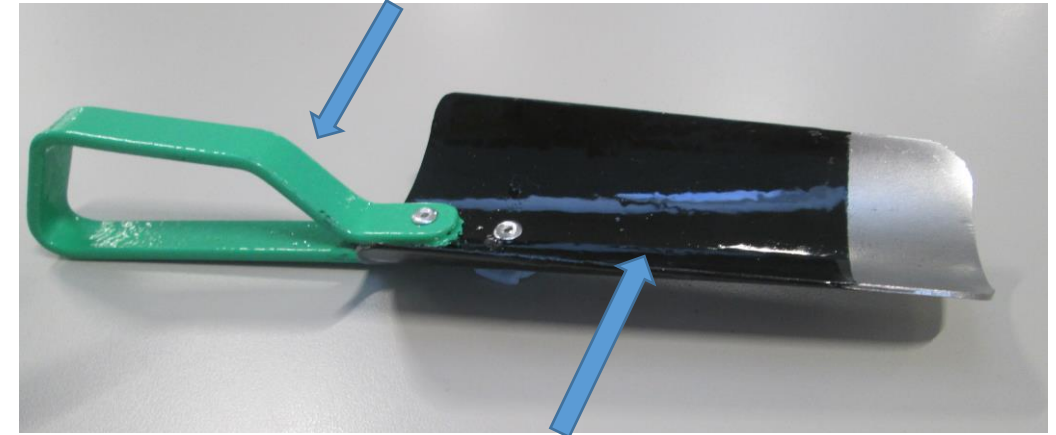
Most

- Almost all bend lines on the handle are accurate according to the given drawing
- Blade is cut, filed and shaped accurately
- Dip coating and painting is neat without any runs and in the correct area (blade only)
- Riveting is solid and secure

Some

- All bend lines on the handle are accurate according to the given drawing
- Blade is cut, filed and shaped accurately
- Dip coating and painting is neat without any runs and in the correct area (blade only)
- Riveting is extremely solid and secure

Dip coating on handle



Blade bent with painted surface

S1 Aug-Dec

Desk Top Publishing (DTP)

The DTP element of the S1 course requires students to select a topic for a magazine front cover.

The finished DTP magazine cover should show evidence of

- A title (with relevant Font, Size, Colour and Position)
- Imported graphics that have been resized
- Graphics that have had their white background removed
- Drop shadows to show depth
- Transparency / opacity used to good effect
- Overall good structure and attractive document that is easy to read/understand

The DTP document will be marked on a scale of 1-4 (1=best)

1- all areas mentioned above have been met and the document has a creative look to it.

2- most areas mentioned above have been met and the document shows signs of creativity

3- some of the areas mentioned above have been met and there is some evidence of creativity

4- none of the areas mentioned above have been met and the document lacks creativity



Acrylic ice scraper

Everyone

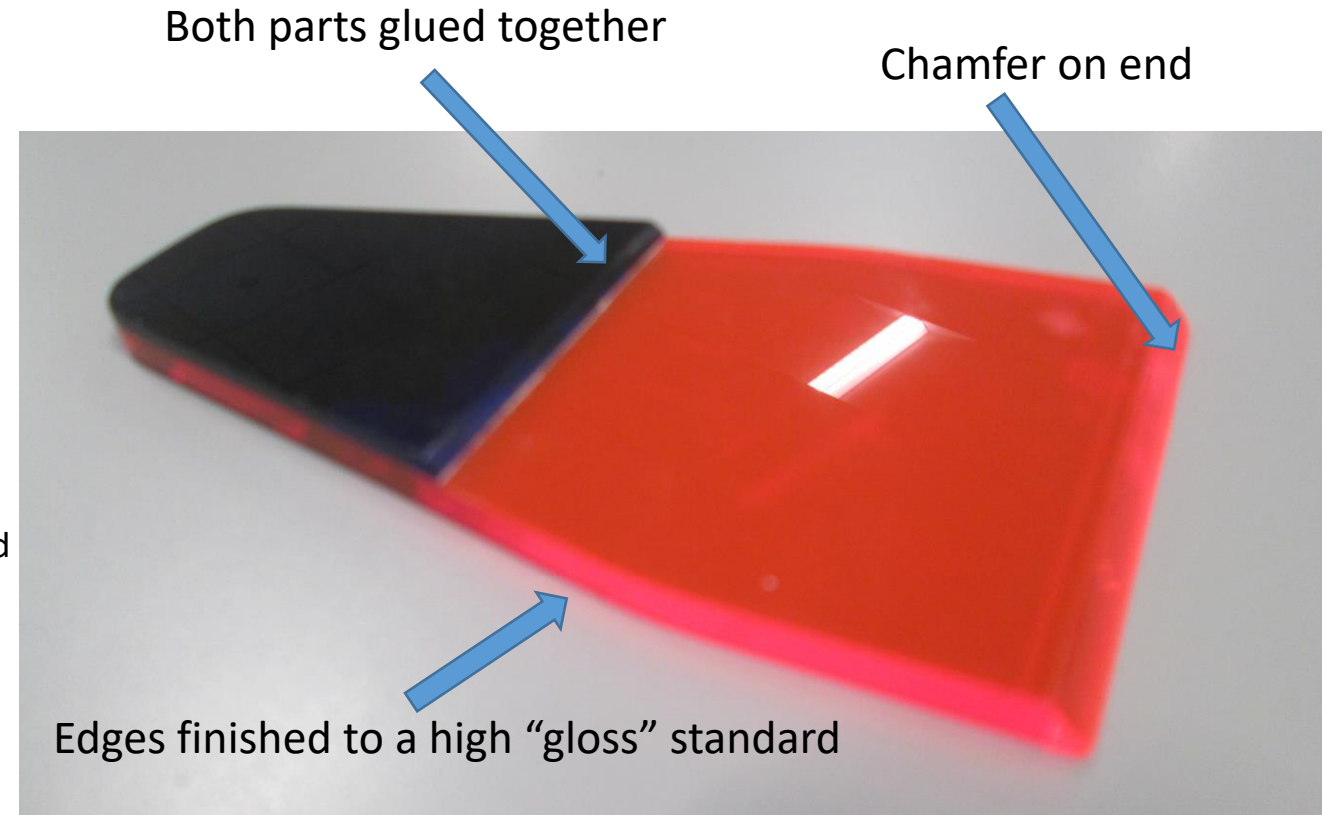
- Most marking out is fairly accurate with some errors
- Most edges of the acrylic are finished to a reasonable standard
- There is some evidence of excess glue when joining both parts
- Chamfer on end lacks accuracy
- Model is reasonably functional

Most

- Almost all marking out is fairly accurate with minor errors
- Almost all edges of the acrylic are finished to a reasonable standard
- There is little evidence of excess glue when joining both parts
- Chamfer on end is fairly accurate
- Model is functional

Some

- All marking out is accurate with no errors
- All edges of the acrylic are finished to a high standard
- There is no evidence of excess glue when joining both parts
- Chamfer on end is accurate
- Model is functional



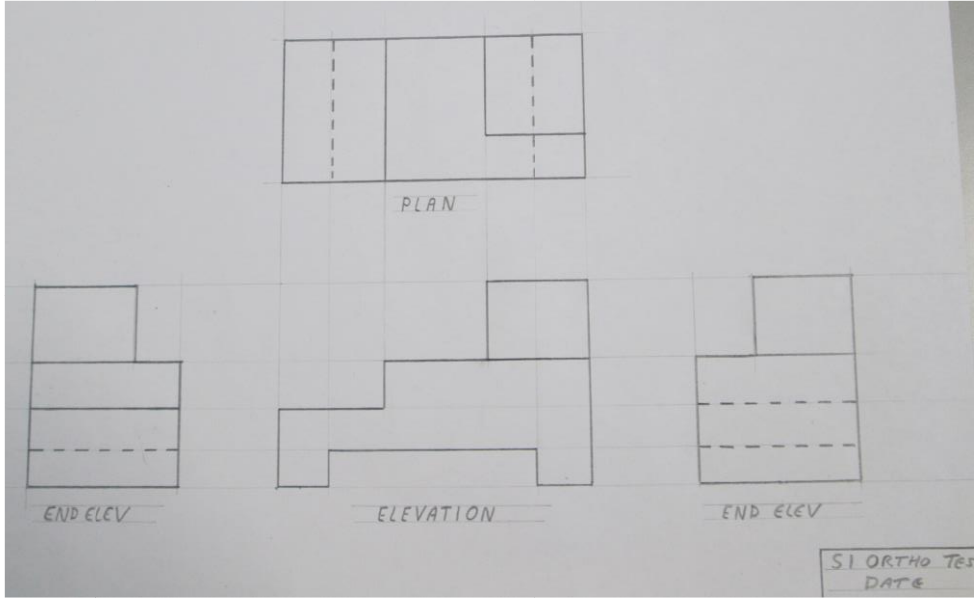
S1 Jan-May

Orthographic assessment

The Orthographic assessment in S1 is marked out of a total of **25** marks.

The allocation of marks is as follows -

- Drawing is accurate in terms of size (accuracy) and layout
- There is evidence between a construction line and an outline
- All areas have been lined in accurately and there is no evidence of “double lines”
- All views are labelled
- There is a title block



Everyone

- Drawing shows some evidence of accuracy/correct layout
- Drawing shows some differentiation between outlines and construction lines
- Drawing shows some care to angles used
- Drawing lacks visual appeal

Most

- Drawing shows good evidence of accuracy/correct layout
- Drawing shows good differentiation between outlines and construction lines
- Drawing shows good care to angles used
- Drawing shows visual appeal

Some

- Drawing shows a high level of accuracy/correct layout
- Drawing shows excellent differentiation between outlines and construction lines
- Drawing shows very good care to angles used
- Drawing shows visual appeal

S1 Feb - Easter

Acrylic phone holder

Everyone

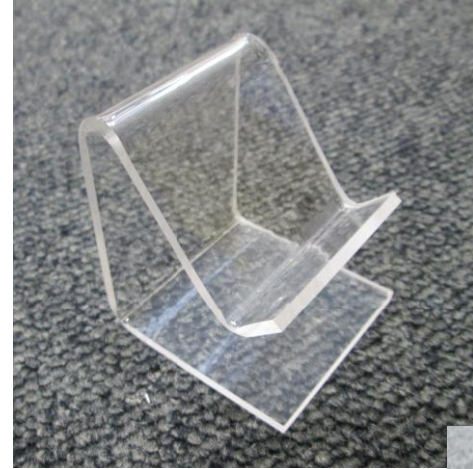
- Most marking out is fairly accurate with some errors
- All edges of the acrylic are finished to a reasonable standard
- A few bends are accurate
- Model is reasonably functional

Most

- All marking out is reasonably accurate
- All edges of the acrylic are finished to a good standard
- Most bends are accurate and functional
- Model is functional

Some

- All marking out is highly accurate
- All edges of the acrylic are finished to a high standard
- All bends are accurate and functional
- Model is functional



S1 Easter – timetable change

Wooden box

Everyone

- Most marking out is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional



S1 Jan-May

CAD assessment

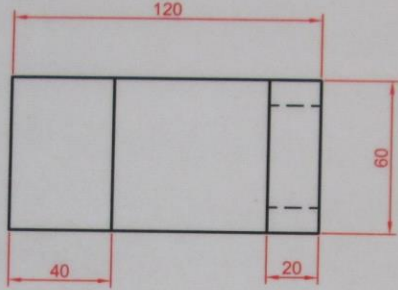
The CAD assessment in S1 is marked out of a total of **25** marks.

The allocation of marks is as follows -

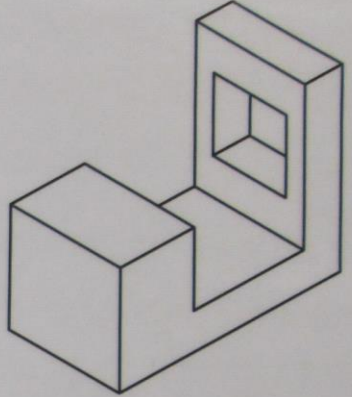
- Drawing is accurate in terms of size (accuracy) and layout
- All relevant dimensions have been added
- All views are labelled
- There is a title block

S1 CAD 3D Modelling Assessment

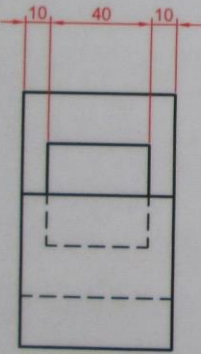
Teacher's notes
Each orthographic view = 5 marks
Isometric / model = 5 marks
Total marks = 20



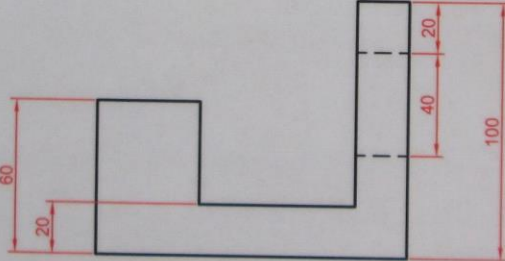
PLAN



ISOMETRIC VIEW



END ELEVATION



ELEVATION

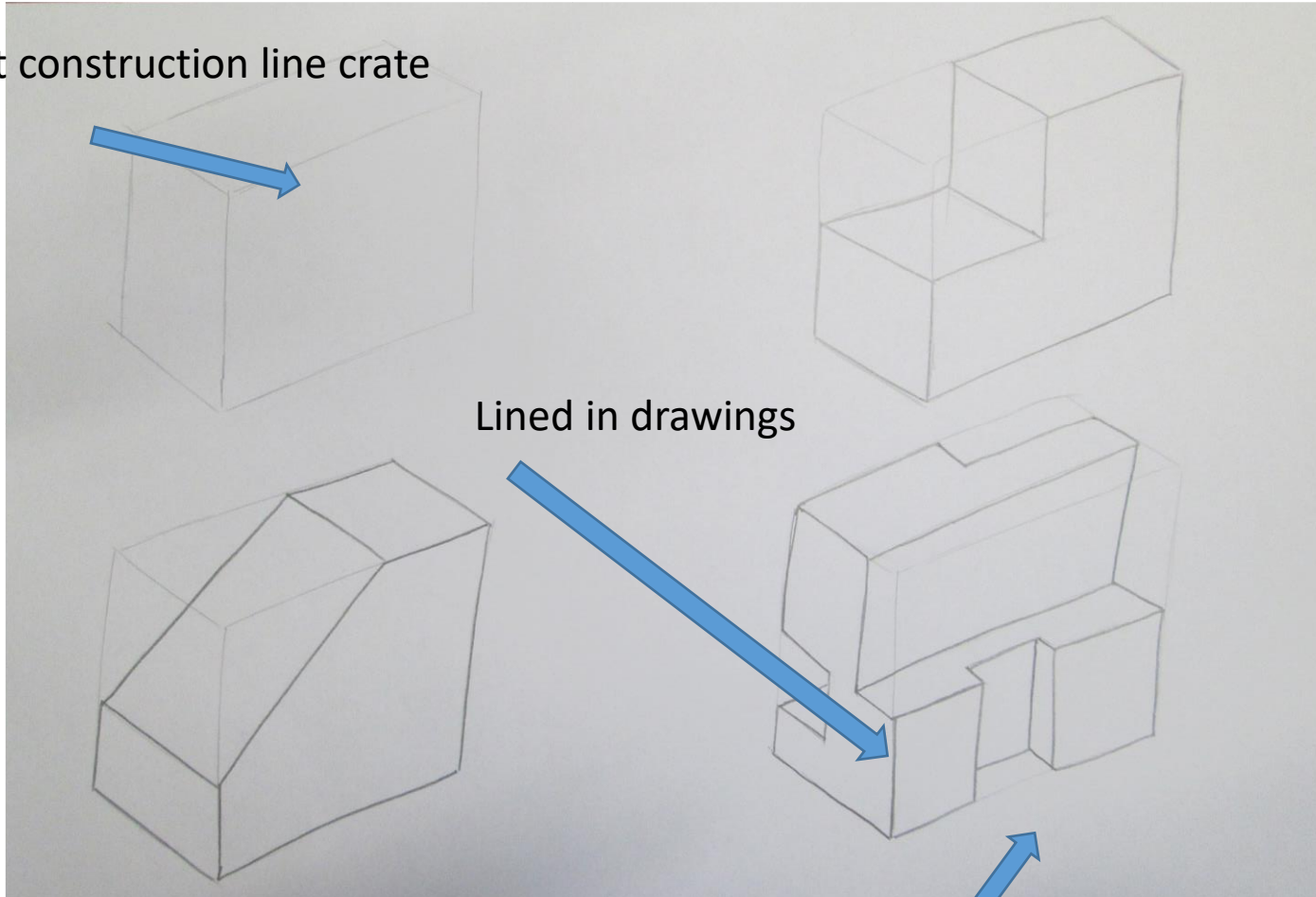
Student Instructions

Using CAD 3D software, produce a 3D model of the shape shown as well as a PLAN, ELEVATION and an END ELEVATION and an ISOMETRIC view from the 3D model. You need to add all dimensions, a title block and also label all views.

S2 Aug-Dec

Freehand isometric sketching

Light construction line crate



Lined in drawings

Consideration of angles and proportion

The drawings will be looked at by your teacher and they will give you verbal or written feedback on how to improve / next steps.

Everyone

- Drawing shows some evidence of accuracy
- Drawing shows some differentiation between outlines and construction lines
- Drawing shows some care to angles used
- Drawing lacks visual appeal

Most

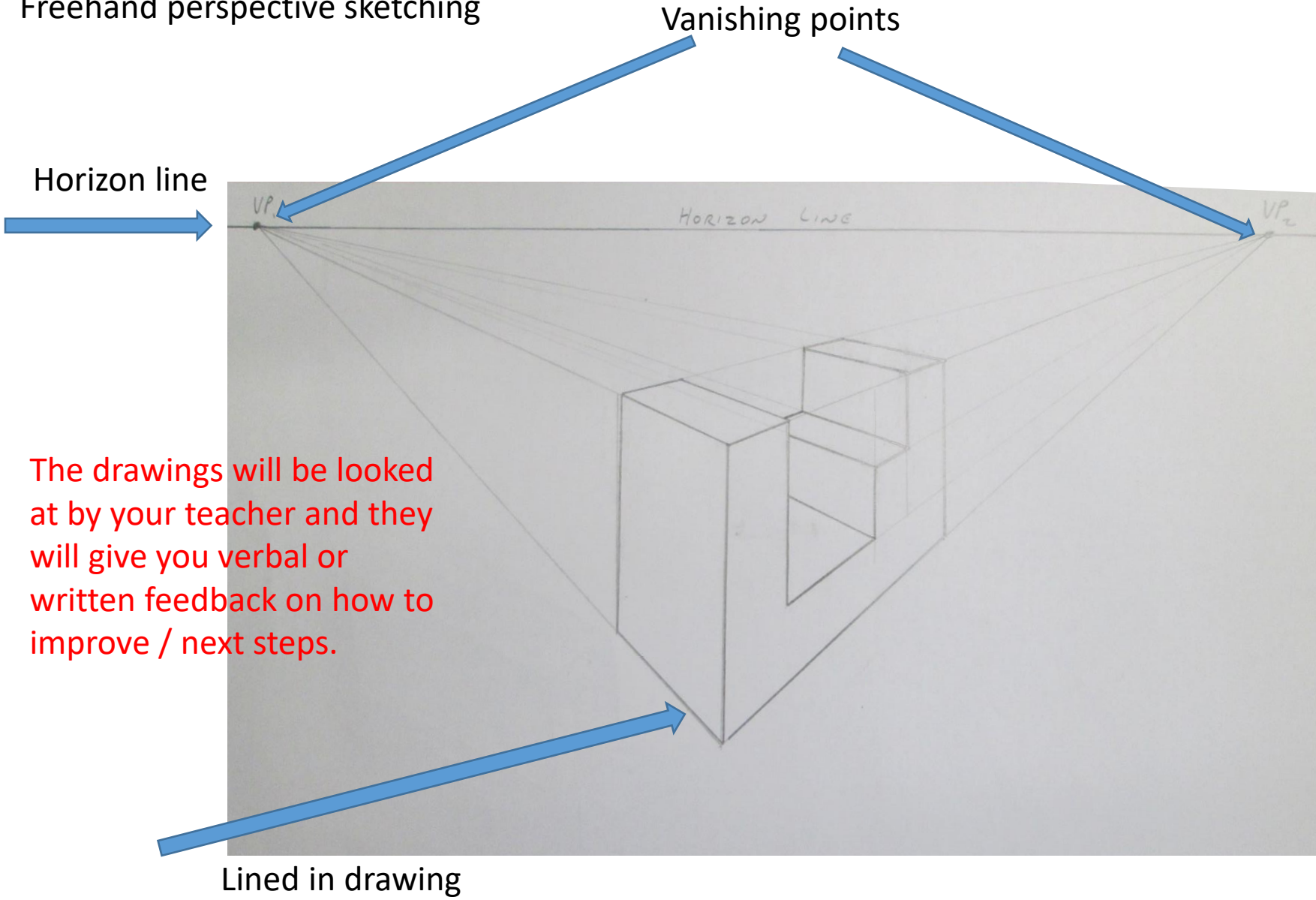
- Drawing shows good evidence of accuracy
- Drawing shows good differentiation between outlines and construction lines
- Drawing shows good care to angles used
- Drawing shows visual appeal

Some

- Drawing shows a high level of accuracy
- Drawing shows excellent differentiation between outlines and construction lines
- Drawing shows very good care to angles used
- Drawing shows visual appeal

S2 Aug-Dec

Freehand perspective sketching



Everyone

- Drawing shows some evidence of accuracy
- Drawing shows some differentiation between outlines and construction lines
- Drawing shows some care to projection
- Drawing lacks visual appeal

Most

- Drawing shows good evidence of accuracy
- Drawing shows good differentiation between outlines and construction lines
- Drawing shows good care to projection
- Drawing shows visual appeal


Some

- Drawing shows a high level of accuracy
- Drawing shows excellent differentiation between outlines and construction lines
- Drawing shows very good care to projection
- Drawing shows visual appeal

Colour theory


As a class you will investigate the following terms relating to Colour theory

- Primary, Secondary and Tertiary colours
- Advancing and Receding colours
- Harmonious colours
- Contrasting colours
- Colour emotions
- Target market

The final piece of work is to create a poster showing all areas of colour theory. 

Colour Theory




Primary Colours

Secondary Colours are made by mixing 2 Primary Colours

Tertiary Colours are made by mixing a Primary and secondary colour




Colours to blend in with surroundings



Coloured to stand out

Colours in **harmony** = next to each other on colour wheel
Colours in **contrast** = opposite each other on colour wheel


Cool - Receding Colours


Warm - Advancing Colours








Bright contrasting colours to attract kids



Subtle colours aimed at adults

Colours and their emotions

-  Red = Danger, love, anger
-  Green = Relaxing, natural
-  Blue = Loyal, respectful
-  Black = Dignified, respectful
-  White = Pure, clean

S2 Aug-Dec

Memo board

Manufactured from pine and to the sizes given (no individual design).

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional

T-Halving joint

Painted MDF

Varnished

Dowel joint



Cross Halving Joint

Everyone

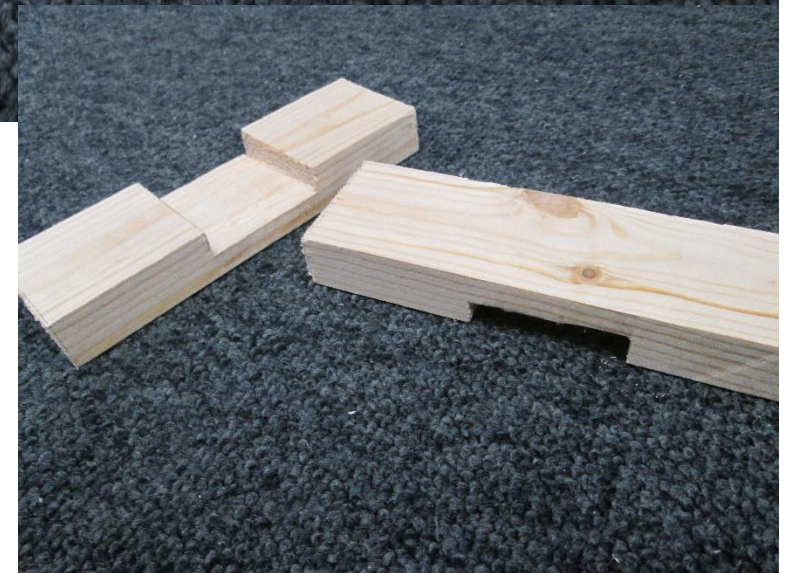
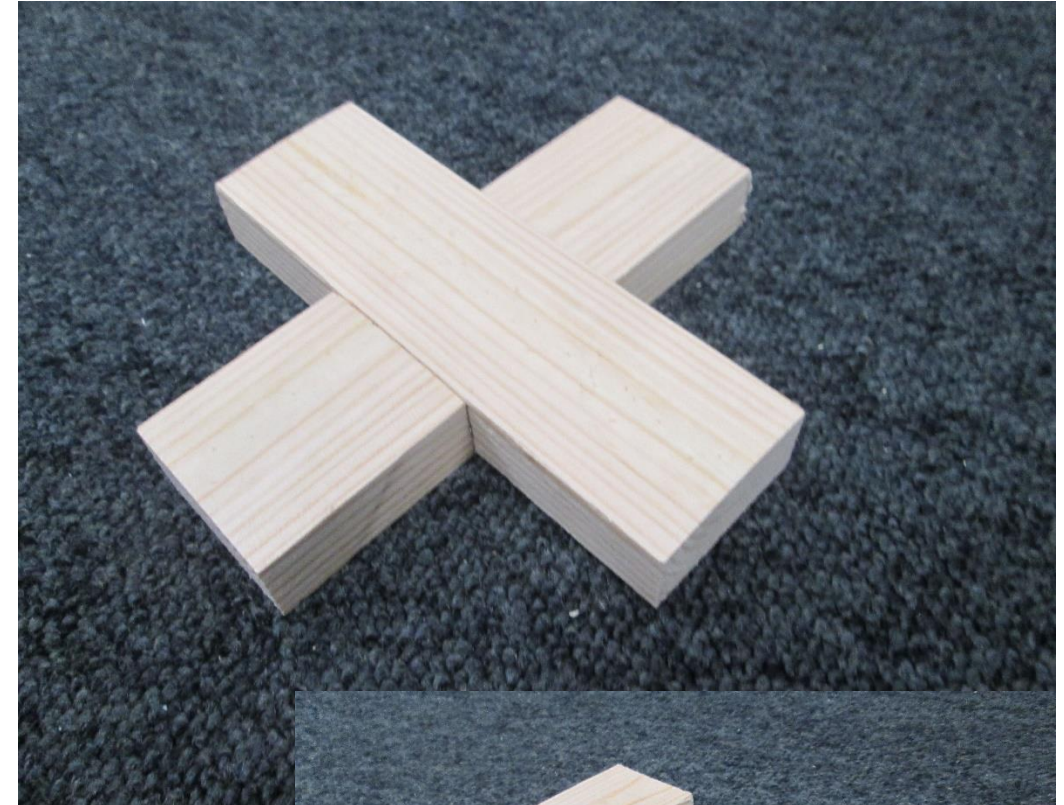
- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- Joint fits reasonably well together

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Joint fits together well and stays with some support

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- Joint fits really well and stays together without support



S2 Candle holder (Christmas – change of timetable)

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional



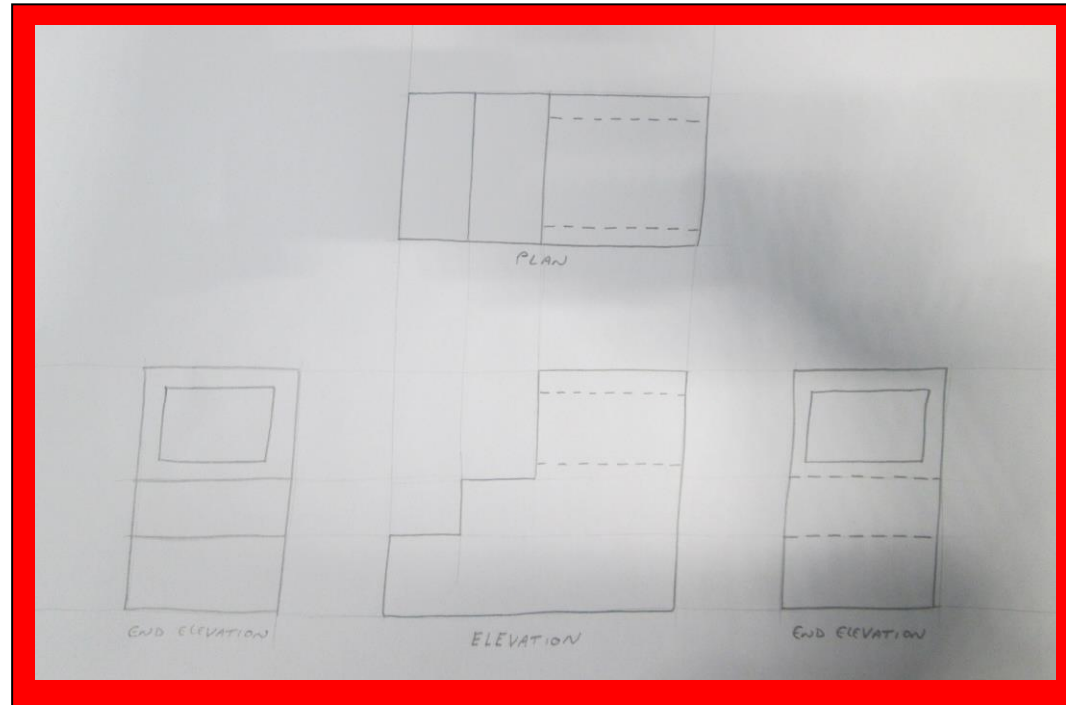
S2 Jan-May

Freehand orthographic sketching

The assessment for this unit will consist of 1 drawing shown as 4 separate views (Plan, Elevation and 2 End Elevations) and will be marked out of **20** marks.

Your drawing should –

- *Have Light construction lines*
- *Have Dark outlines*
- *Been drawn as “related views”*
- *By the correct sizes and in the correct position*
- *Have all views labelled*



Everyone

- Drawing shows some evidence of accuracy
- Drawing shows some differentiation between outlines and construction lines
- Drawing shows some care to angles used
- Drawing lacks visual appeal

Most

- Drawing shows good evidence of accuracy
- Drawing shows good differentiation between outlines and construction lines
- Drawing shows good care to angles used
- Drawing shows visual appeal

Some

- Drawing shows a high level of accuracy
- Drawing shows excellent differentiation between outlines and construction lines
- Drawing shows very good care to angles used
- Drawing shows visual appeal

Desk Top Publishing (DTP)

Students will have to create their own DTP magazine front cover.

It should consist of –

- A title
- Images relating to their chosen topic
- Drop shadows
- Transparency
- Removal of white background
- Various fonts and colours used



The magazine page will be marked on a scale 1-4 (1= best)

- 1- Creative and imaginative layout, evidence of all the points mentioned on the left of this slide
- 2- Some evidence of creativity and imaginative layout, some of the points on the left have been shown
- 3- Lacks creativity and imagination, little evidence of the points on the left have been shown
- 4- Unfinished in all aspects

Computer Aided Drawing (CAD)

This unit of work will be graded as the students progress through the S2 Graphics booklet.

Students will be required to extract information from a given drawing and be able to create a computer produced 3D model and the corresponding Orthographic views

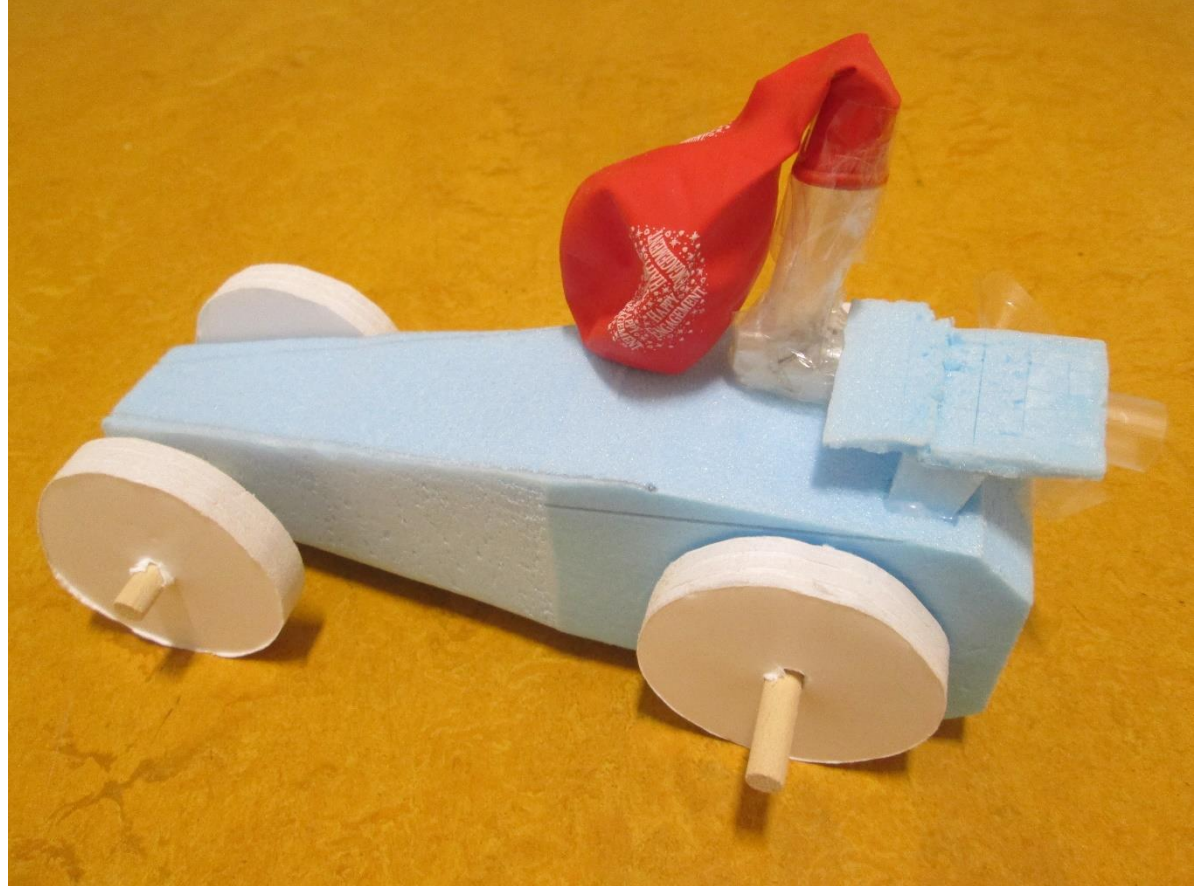
Written feedback will be given on the student printouts as they progress outlining strengths and next steps.

S2 Jan-May

Balloon powered car

This activity is done as group work.

- 1) Each group will be issued with a set of materials
- 2) Each member of the team must individually design a car from the given materials that will be powered by a balloon
- 3) The group vote on the best design
- 4) Construction of the car takes place with all group members involved
- 5) The winning group is the car which travels the furthest distance (tested in the Technical department corridor)



Plant pot stand (Practical woodwork)

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional



Design folio for Gaming accessories holder (Design and Manufacture)

This design folio will be completed on A3 paper and will consist of the following sections –

- **Design Brief** (a quick introduction to the design folio)
- **Specification** (a list of things the practical must have/do)
- **Research** (sizes of games controller, available space, size of headset etc)
- **Research** (internet images of what is already on the market to gain inspiration)
- **Ideas** (5 or 6 different ideas of your own design that meet the specification)
- **Development** (pick 1 idea and look to see any improvements on your initial idea)
- **Final choice** (a drawing of the model you intend to make)
- **Scale 1:1 model** (a full size model made from cardboard to check sizes etc)
- **Working drawing / Cutting List** (a drawing showing all sizes for construction)
- **Evaluation**

The folio will be marked in terms of content and presentation on a scale 1-4 (1= best)

1 = Thoughtful and neat presentation, all pages are there and there is evidence of creativity within the designs

2= Presentation looks good, all pages are there and there is some evidence of creativity

3 = Presentation could be improved, most pages are there but lack creativity and thought

4 = Poor presentation, pages are missing/incomplete and little to no creativity within the designs

Gaming accessories holder (practical model for Design and Manufacture)

The model that is manufactured by the students will be their own design and a direct result of a detailed design folio.

The model should be –

- *The students own design*
- *Show a level of creativity*
- *Meet all the points mentioned within the Specification*
- *Fulfil its designed purpose (to hold gaming controllers, a headset, games and a TV remote*
- *Be structurally sound*
- *Be finished to a high degree*
- *Designed so students can showcase their skills*

The model will be marked 1-4 (1=best and 4=need for improvement)



S3 Aug-Dec

Mirror frame (Practical woodwork)

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing



This unit will be a culmination of all the Graphics skills developed over the course of S3 G.Comm.

Mobile phone holder (practical model for Design and Manufacture)

This design folio will be completed on A3 paper and will consist of the following sections –

- **Design Brief** (a quick introduction to the design folio)
- **Specification** (a list of things the practical must have/do)
- **Research** (sizes of phone, available space, size of additional features etc)
- **Research** (internet images of what is already on the market to gain inspiration)
- **Ideas** (5 or 6 different ideas of your own design that meet the specification)
- **Development** (pick 1 idea and look to see any improvements on your initial idea)
- **Final choice** (a drawing of the model you intend to make)
- **Scale 1:1 model** (a full size model made from cardboard to check sizes etc)
- **Working drawing / Cutting List** (a drawing showing all sizes for construction)
- **Evaluation**

The folio will be marked in terms of content and presentation on a scale 1-4 (1= best)

1 = Thoughtful and neat presentation, all pages are there and there is evidence of creativity within the designs

2= Presentation looks good, all pages are there and there is some evidence of creativity

3 = Presentation could be improved, most pages are there but lack creativity and thought

4 = Poor presentation, pages are missing/incomplete and little to no creativity within the designs

Small tray (Practical woodworking)

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional

Housing joints

Split turning



Table centre piece (Practical woodworking)

Everyone

- Most marking out and joint work is fairly accurate with some errors
- All surfaces have been slightly sanded to a reasonable standard
- There is evidence of excess glue when joining all parts
- Varnishing is lacking care and attention and has significant errors
- Model is reasonably functional

Most

- All marking out and joint work is reasonably accurate
- All surfaces have been sanded with some minor rough parts and is finished to a good standard
- Some evidence of excess glue when joining all parts
- Varnishing has been done to a good standard with minor errors
- Model is functional

Some

- All marking out and joint work is accurate
- All surfaces have been fully sanded with no rough areas to a high standard
- No evidence of excess glue when joining all parts
- No run marks when varnishing
- Model is functional

