

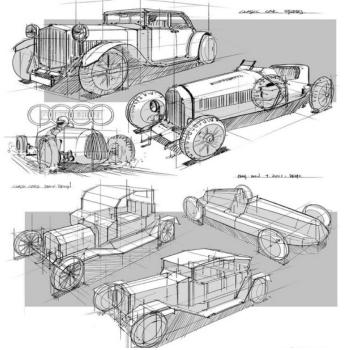
Design out the box

Name / Enw:

Form / Dosbarth:

Design Task / Task Dylunio:

You will learn how to present designs using the following drawing techniques, sketching, crating, perspective drawings, isometric drawings and rendering techniques. You will use these techniques to complete a design brief using the skills that you have learnt.



Presentation

You are expected to <u>carry your folder in the A3 wallet</u> <u>provided. IT SHOULD NOT BE FOLDED</u> A pen should be used for all writing and a pencil should be used for design work. Designs are expected to be coloured in.

RG	E
	RG

Presentation

You are expected to <u>carry your folder in the A3 wallet</u> <u>provided. IT SHOULD NOT BE FOLDED</u> A pen should be used for all writing and a pencil should be used for design work. Designs are expected to be coloured in.

Learning Objectives / Nodau Dysgu:

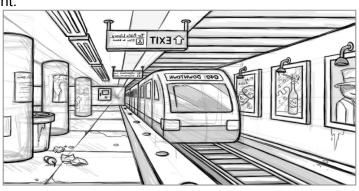
- You will learn how the crating technique can help when developing 3 dimensional images
- You will learn to draw in a variety of techniques such as isometric, one point and two point perspective
- You will learn how to enhance the presentation of your work with thick and thin lines
- You will learn how to add colour to a three dimensional drawing to give a sense of realism.
- You will develop a range of CAD 3D modelling skills
- You will design a detailed realistic model to convey your ideas to the client.

Drawing Technique	Interim Level	Level Awarded
One point perspective train		
One point perspective NYC		
One point perspective crating		
One point perspective phone/ camera		

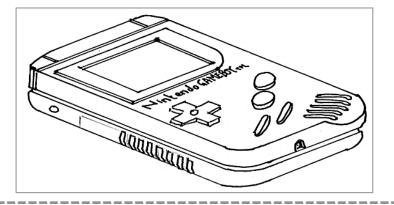
Drawing Technique	Interim Level	Level Awarded
Two point perspective NYC		
Two point perspective House		
Two point perspective luxury House		
Two point Crating		
Two point perspective phone/ camera		

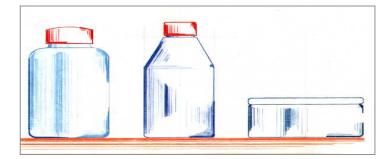
ded

Drawing Technique	Interim Level	Level Awarded
Textures		
Renders		
Thick/thin line		
•		



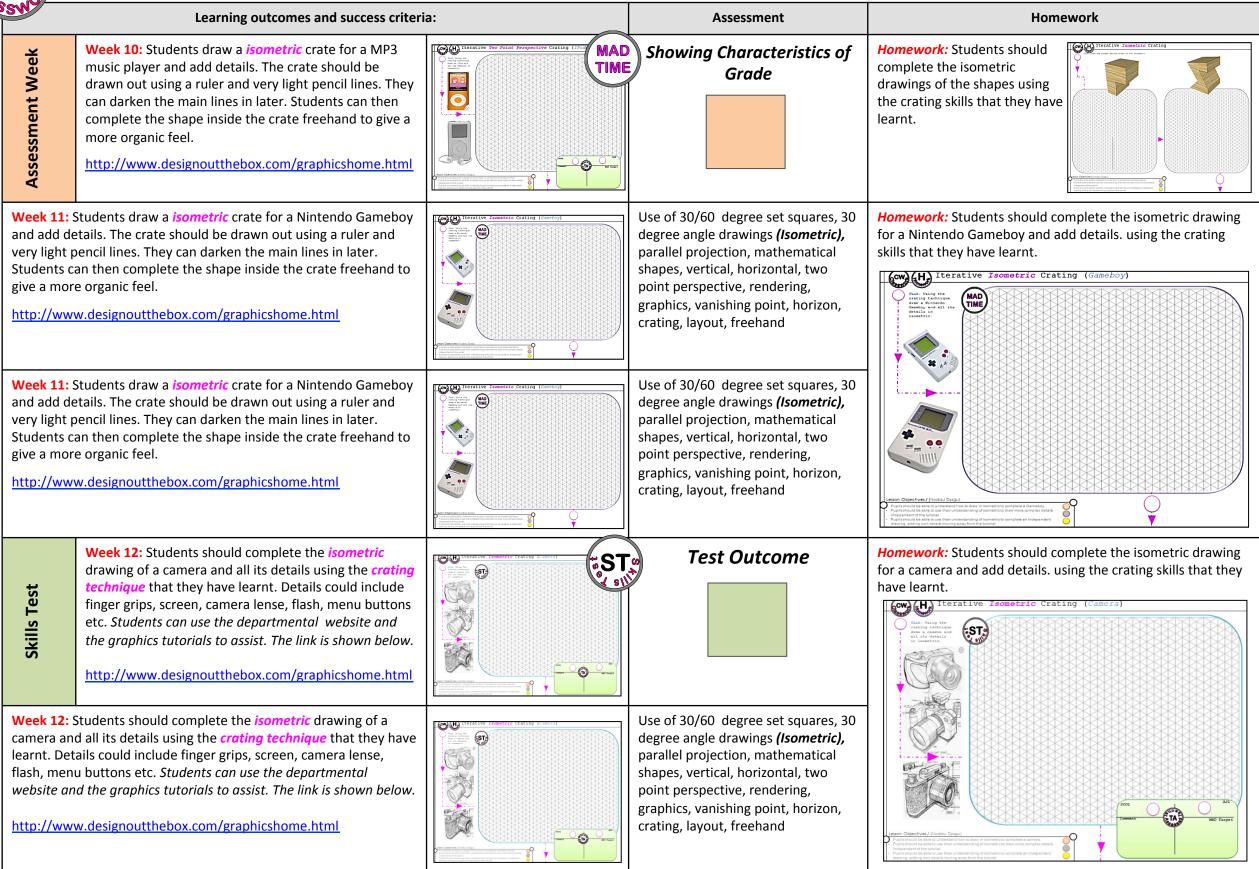








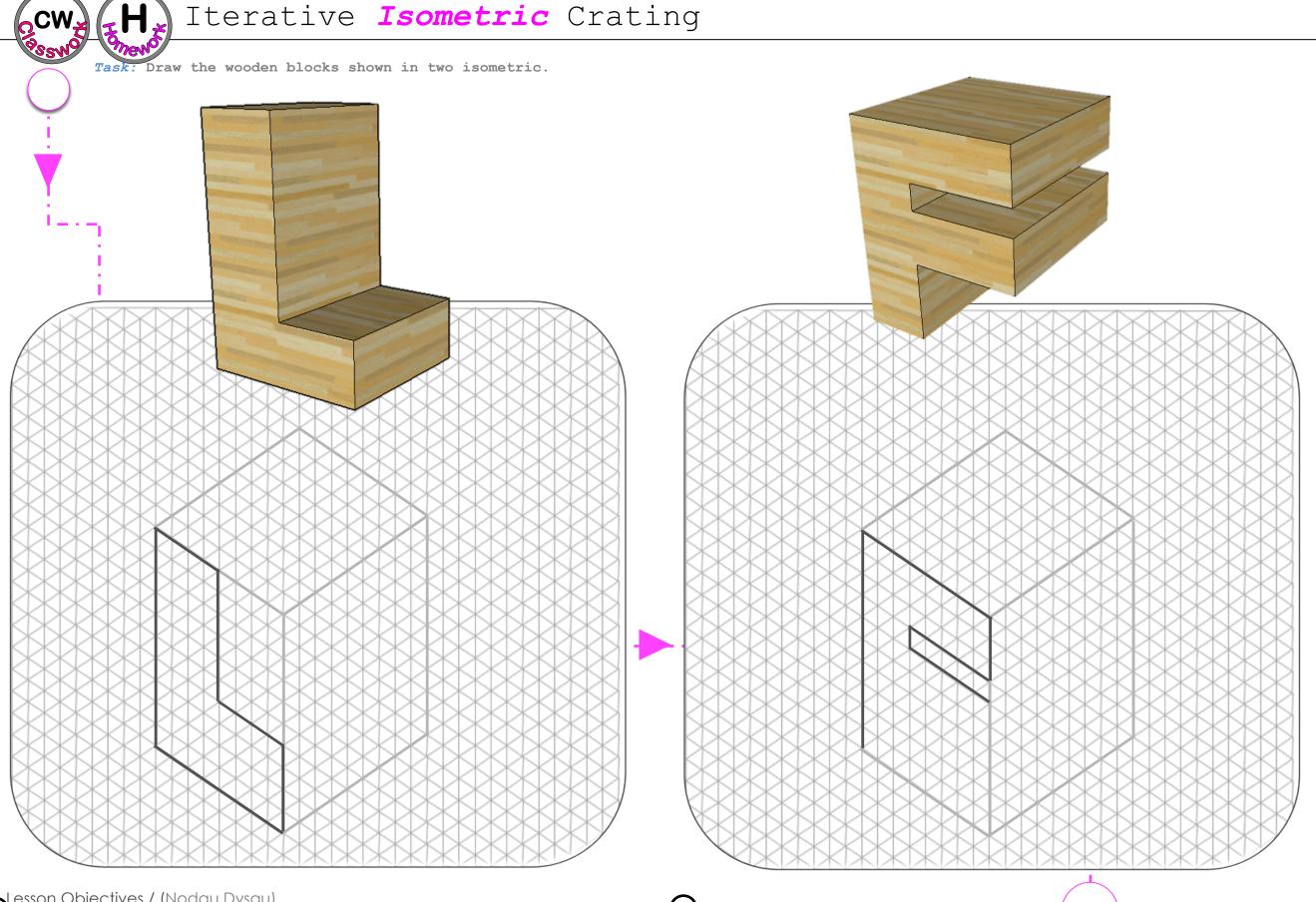
KS4 Graphics Learning Plan: Isometric





KS4 Graphics Learning Plan: Isometric

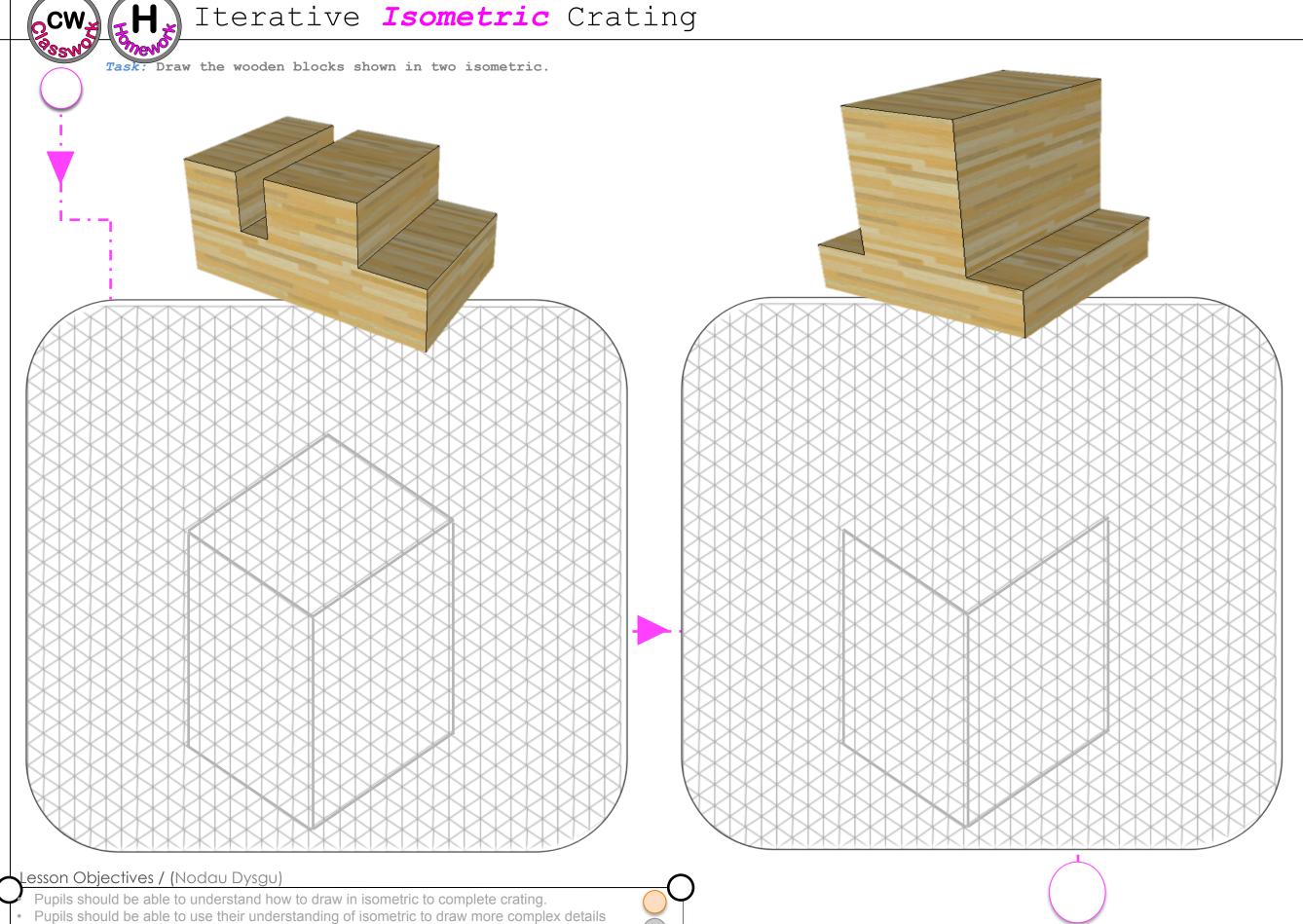
Learning outcomes and success criteri	a:	Assessment	Homework
Week 13: Week 12: Students should complete the <i>isometric</i> drawing of products of their own choice and all their details using the <i>crating technique</i> that they have learnt.Students can use the departmental website and the graphics tutorials to assist. The link is shown below.http://www.designoutthebox.com/graphicshome.html		Use of 30/60 degree set squares, 30 degree angle drawings <i>(Isometric)</i> , parallel projection, mathematical shapes, vertical, horizontal, two point perspective, rendering, graphics, vanishing point, horizon, crating, layout, freehand	Homework: Students should complete the thick thin line technique using the skills that they have learnt.
Week 13: Students watch the step by step guide on how to draw using <i>thick, thin line technique</i> , demo on the board and using the spider climbing over the shapes. Students complete their own on the blank shapes. Students will need to use the reverse side of the ruler to avoid smudges. <i>Students should complete for homework</i> .		Use of 30/60 degree set squares, 30 degree angle drawings <i>(Isometric),</i> parallel projection, mathematical shapes, vertical, horizontal, two point perspective, rendering, graphics, vanishing point, horizon, crating, layout, freehand	Control of the set
ISOMETRIC SUBMISS	SION	Showing Characteristics of Grade	Isometric catch up.
 Week 14: Students watch the step by step guide on how to draw using <i>shading technique</i>, demo on the board. Students complete their own on the blank shapes. Students watch the step by step guide on how to draw using <i>textures technique</i>, demo on the board. Students complete their own wood, plastic, metal textures. <i>Students should complete for homework.</i> 	Tereting Reducing (Deriv) Tereting Reducing (De	Use of 30/60 degree set squares, 30 degree angle drawings <i>(Isometric)</i> , parallel projection, mathematical shapes, vertical, horizontal, two point perspective, rendering, graphics, vanishing point, horizon, crating, layout, freehand.	Homework: Students should complete the textures technique using the skills that they have learnt.
RENDERING SUBMISS	RENDERING SUBMISSION		Missing Design
END OF TERM		Portfolio Work Catch up	



Lesson Objectives / (Nodau Dysgu)

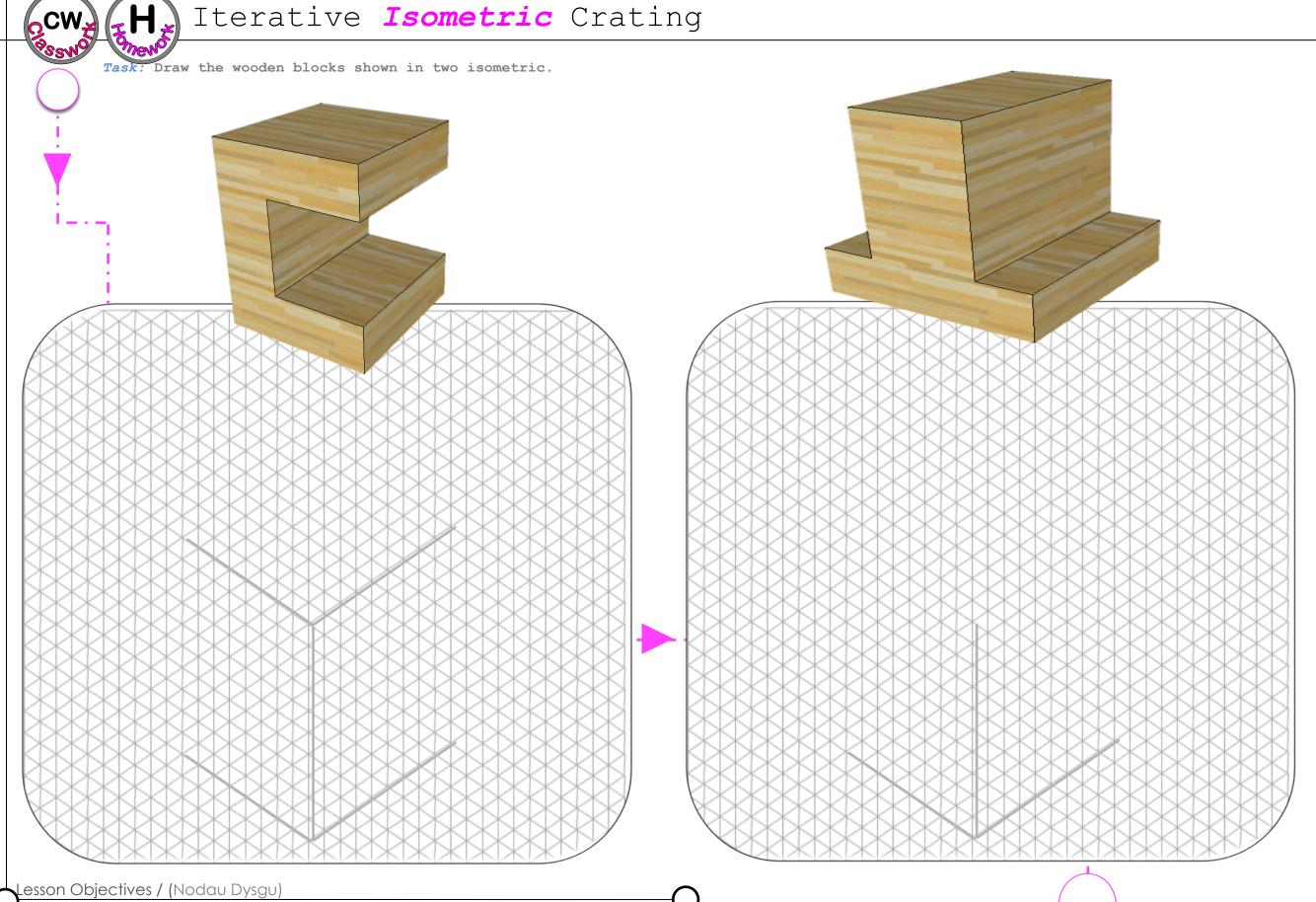
Pupils should be able to understand how to draw in isometric to complete crating. • Pupils should be able to use their understanding of isometric to draw more complex details independent of the tutorial.

• Pupils should be able to use their understanding of isometric to complete an independent drawing, adding own details moving away from the tutorial



Pupils should be able to use their understanding of isometric to draw more complex details independent of the tutorial.
Pupils should be able to use their understanding of isometric to complete an independent

drawing, adding own details moving away from the tutorial



Pupils should be able to understand how to draw in isometric to complete crating.
Pupils should be able to use their understanding of isometric to draw more complex details independent of the tutorial.

• Pupils should be able to use their understanding of isometric to complete an independent drawing, adding own details moving away from the tutorial

Iterative *Isometric* Crating

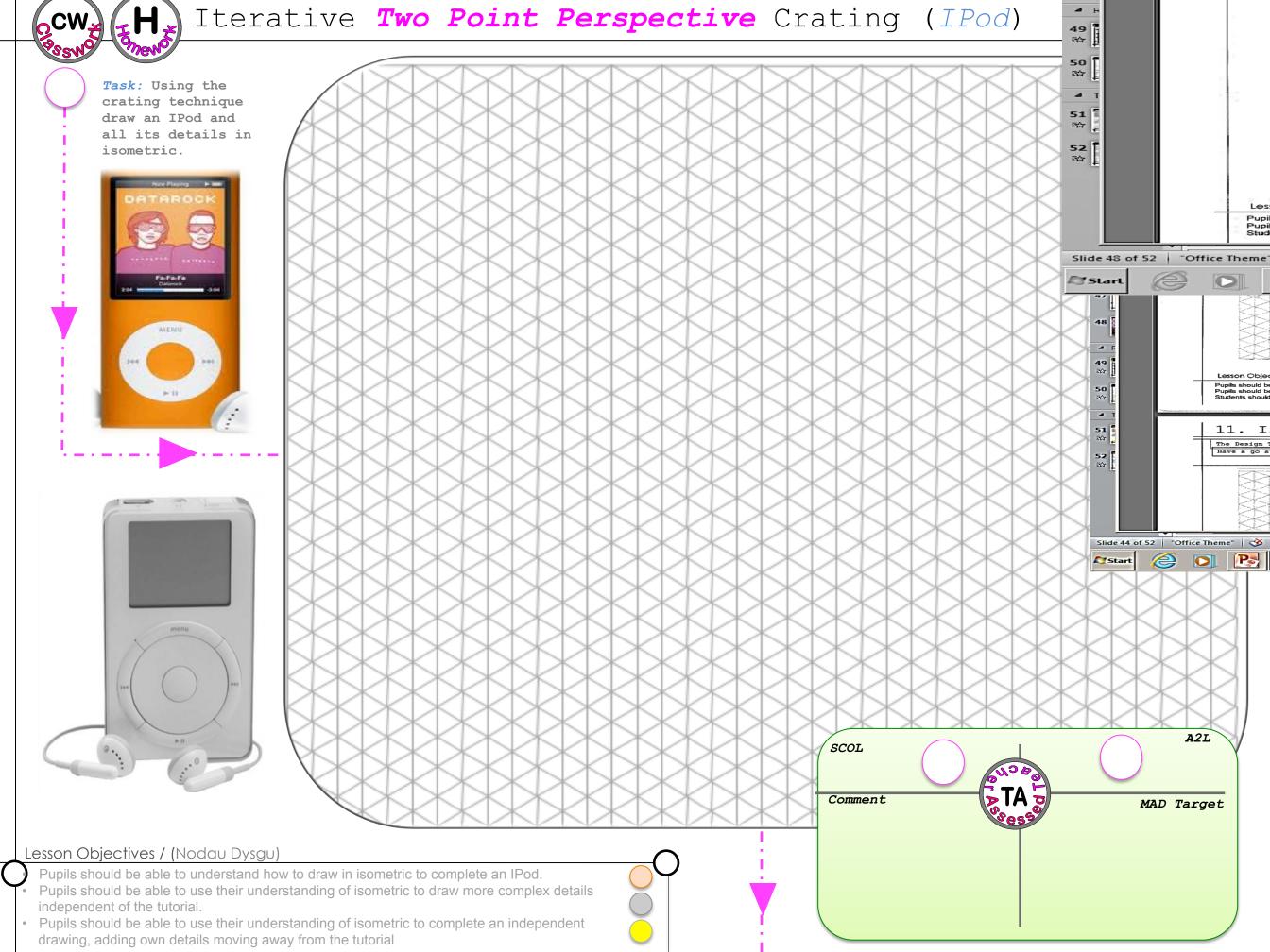
Task: Draw the wooden blocks shown in two isometric.

Lesson Objectives / (Nodau Dysgu)

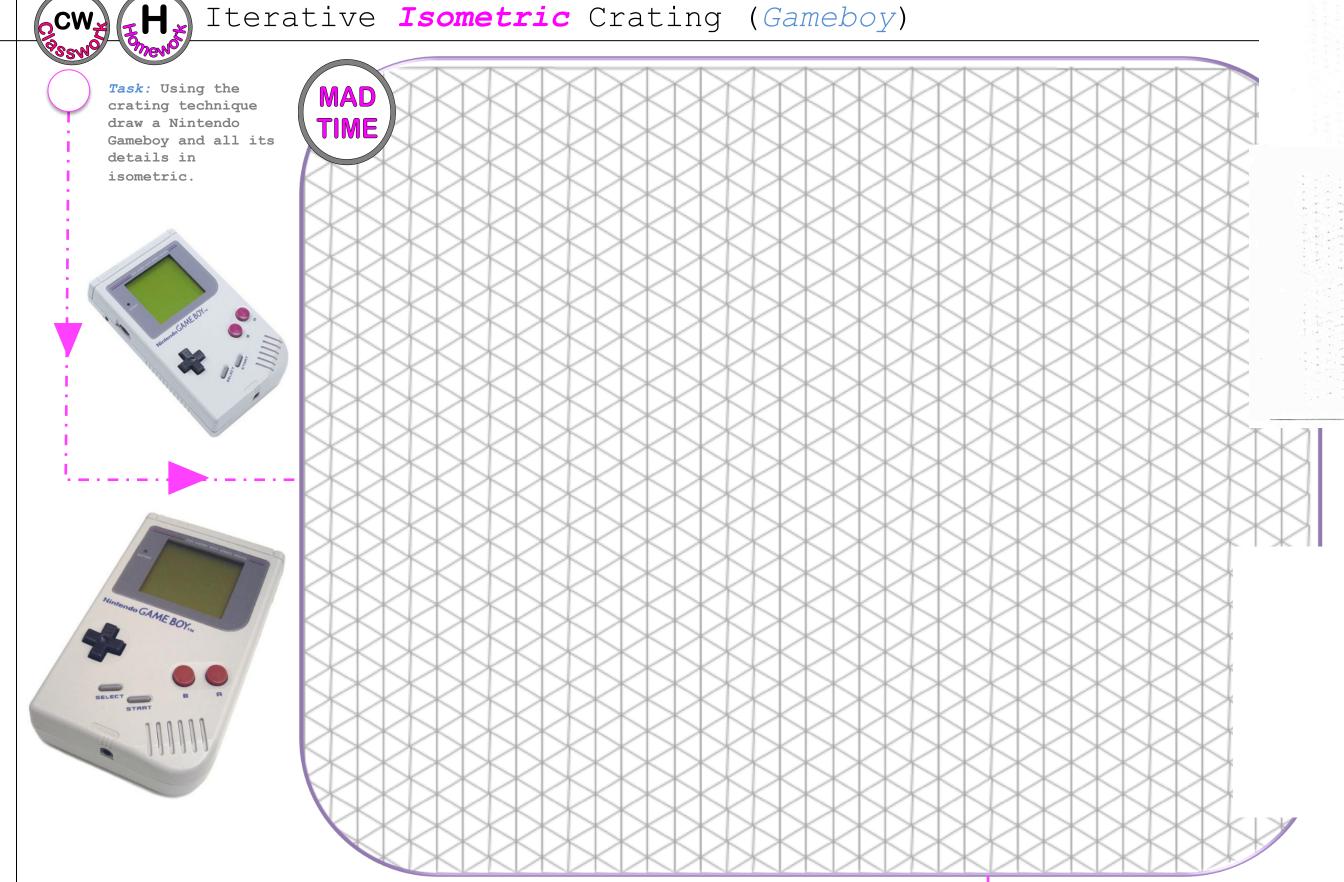
Pupils should be able to understand how to draw in isometric to complete crating.Pupils should be able to use their understanding of isometric to draw more complex details independent of the tutorial.

• Pupils should be able to use their understanding of isometric to complete an independent drawing, adding own details moving away from the tutorial





Iterative *Isometric* Crating (*Gameboy*)

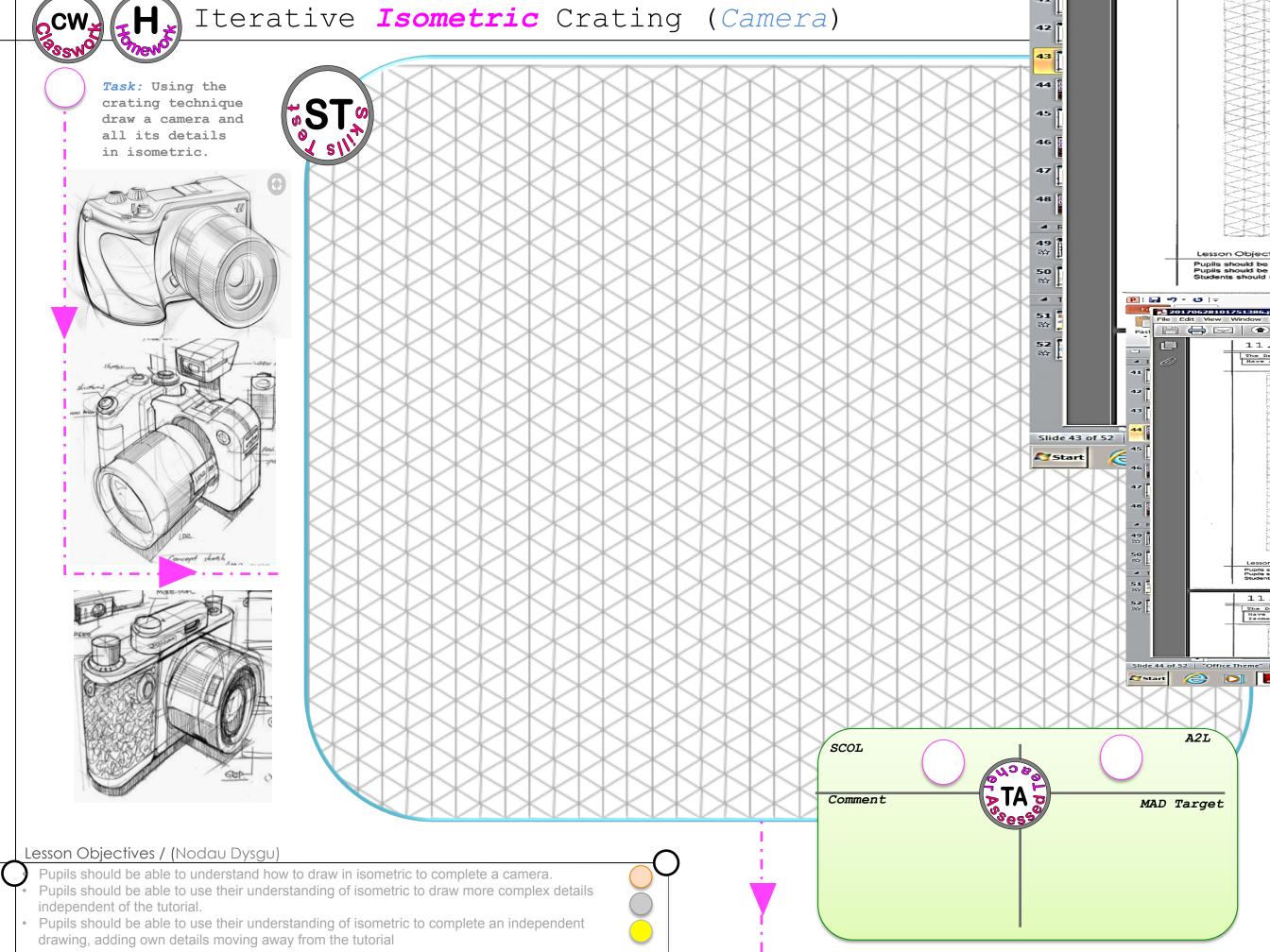


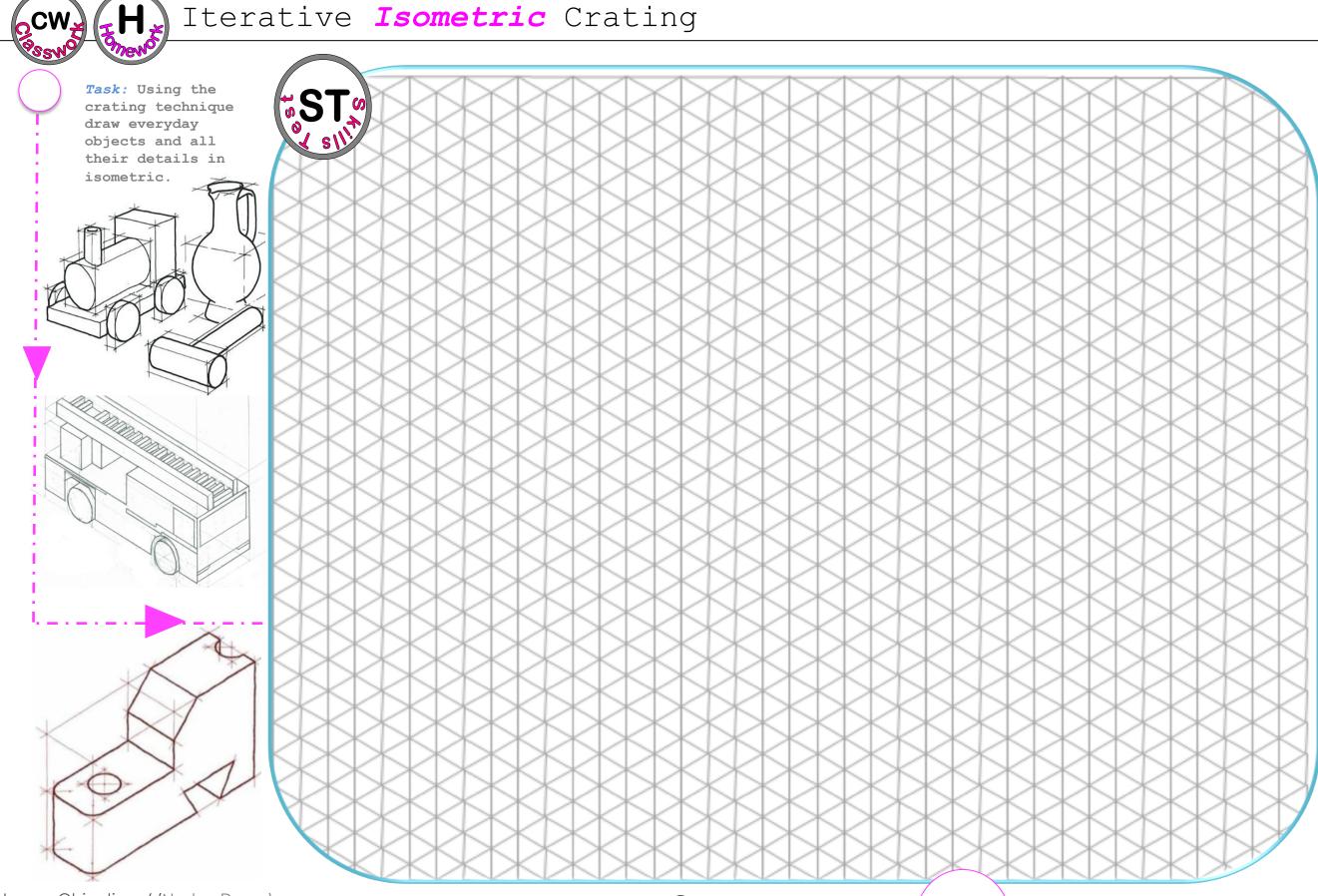
Lesson Objectives / (Nodau Dysgu)

Pupils should be able to understand how to draw in isometric to complete a Gameboy. • Pupils should be able to use their understanding of isometric to draw more complex details independent of the tutorial.

• Pupils should be able to use their understanding of isometric to complete an independent drawing, adding own details moving away from the tutorial



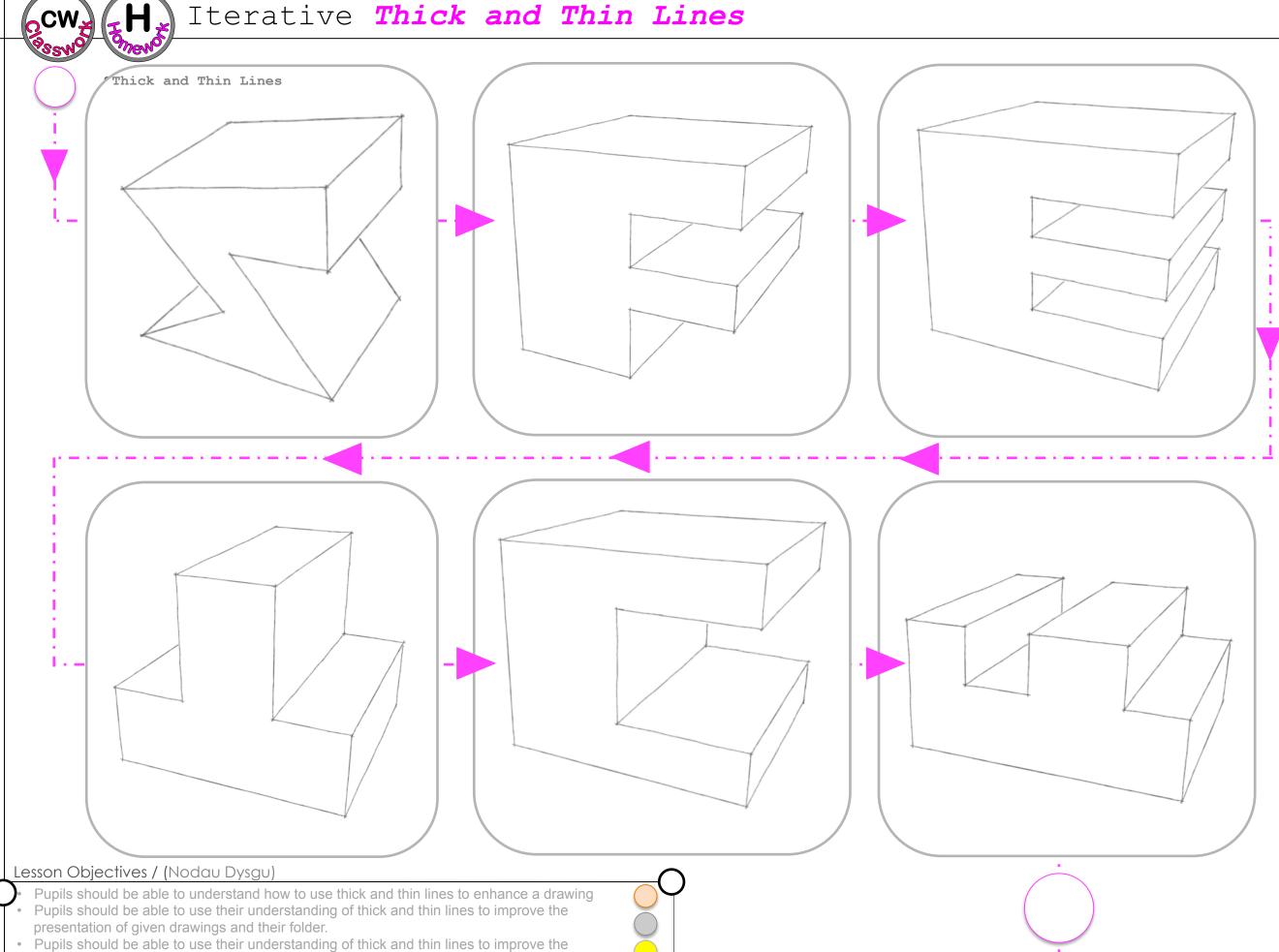




Lesson Objectives / (Nodau Dysgu)

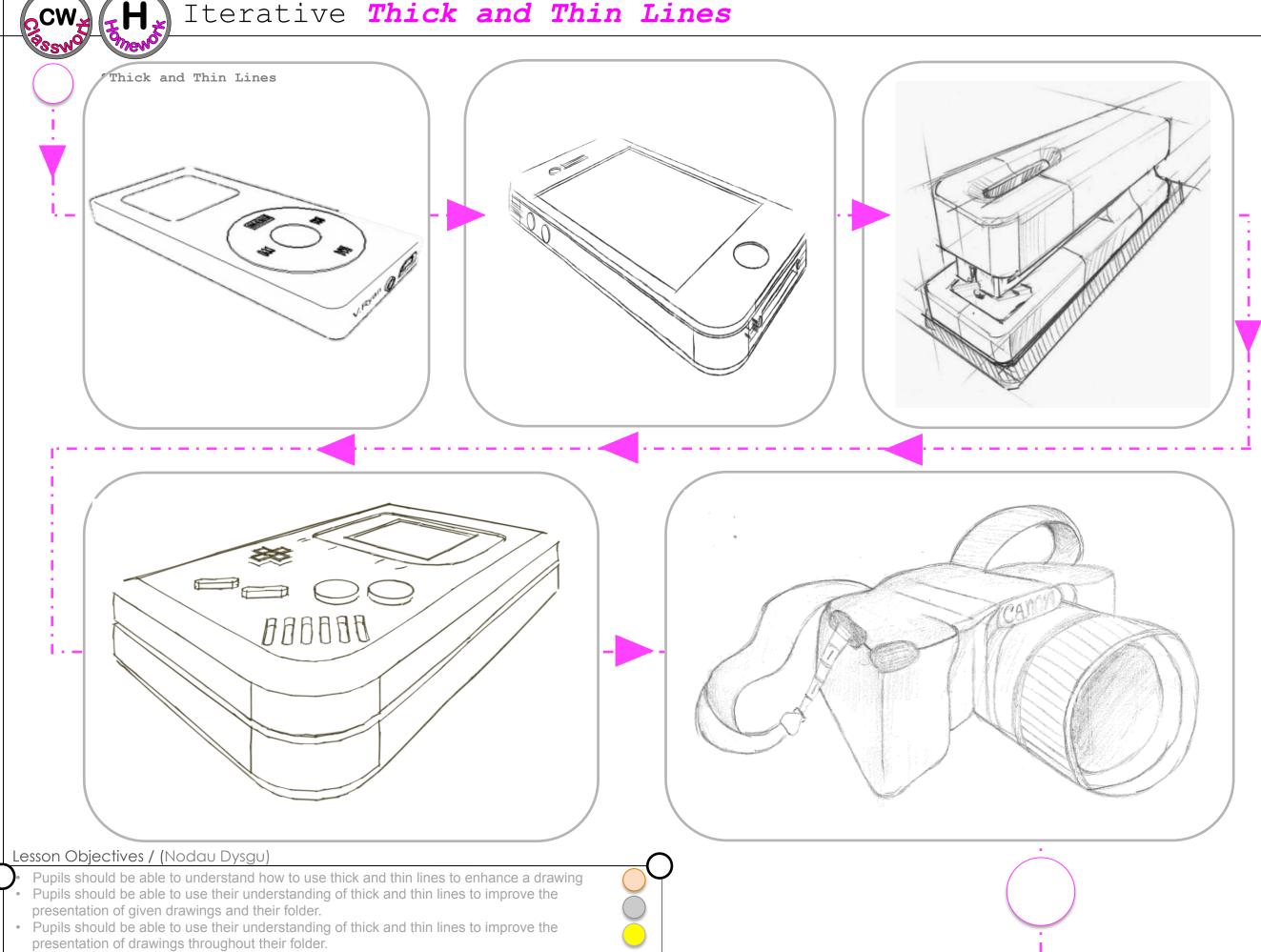
Pupils should be able to understand how to draw in one point perspective to complete crating.
Pupils should be able to use their understanding of one point perspective to draw more complex details independent of the tutorial.

Pupils should be able to use their understanding of one point perspective to complete an independent drawing moving the vanishing point, adding their own details moving away from the



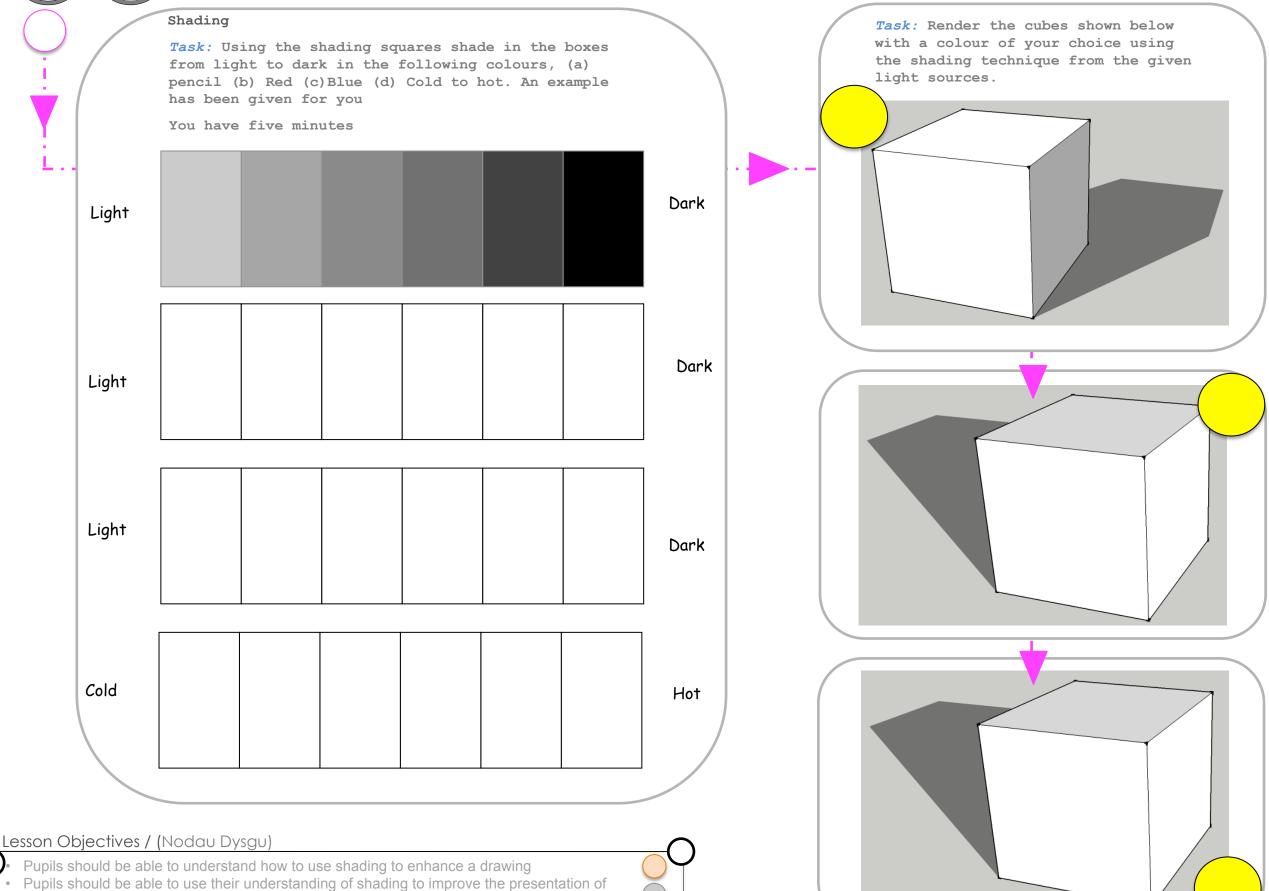
 Pupils should be able to use their understanding of thick and thin lines to improve presentation of drawings throughout their folder.

Iterative Thick and Thin Lines



Iterative **Rendering** (Shading)

Η



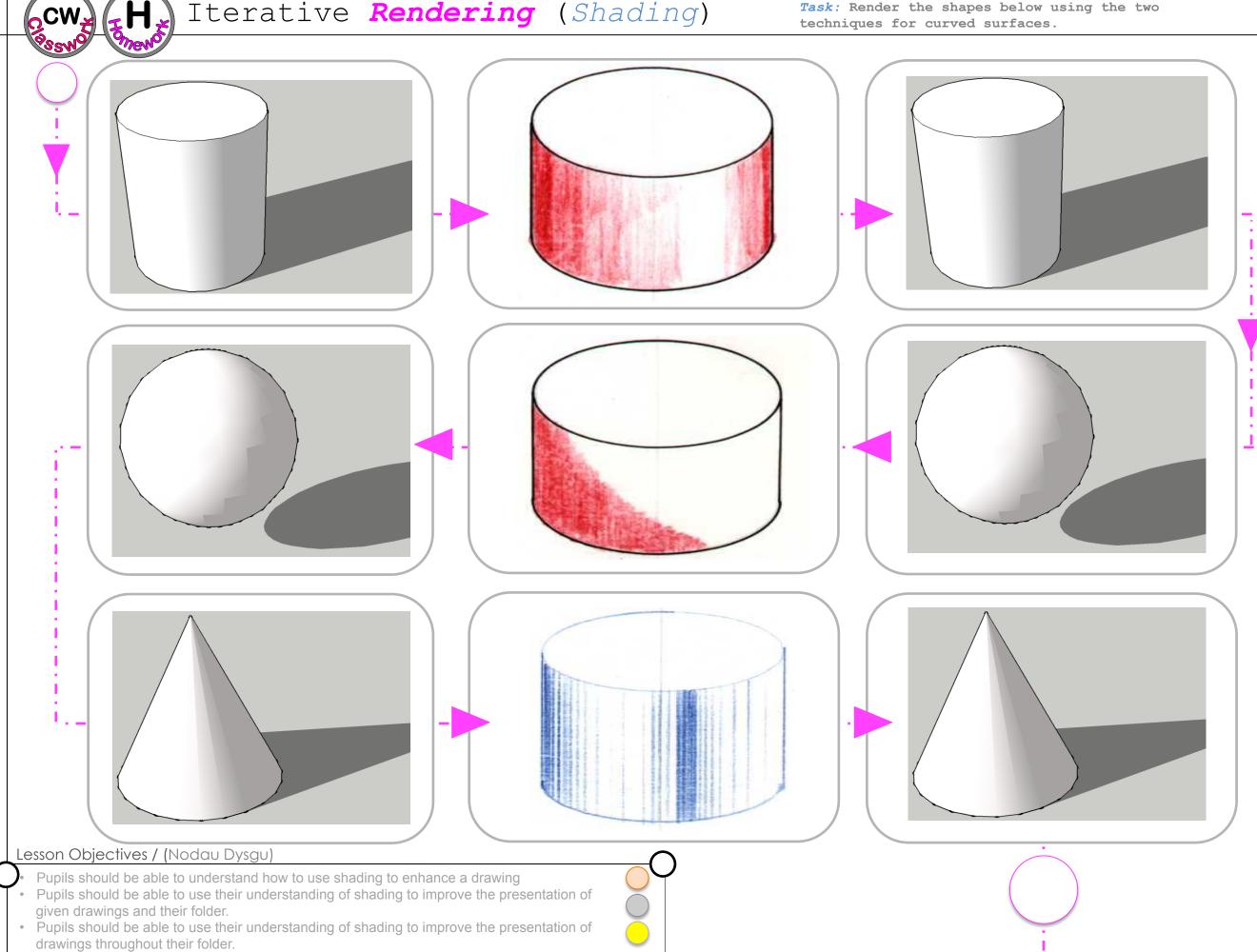
• Pupils should be able to use their understanding of shading to improve the presentation of drawings throughout their folder.

given drawings and their folder.

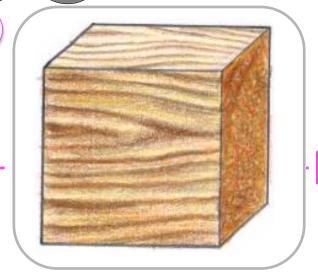
Ŏ

Iterative **Rendering** (Shading)

Task: Render the shapes below using the two techniques for curved surfaces.



Iterative **Rendering** (Textures)

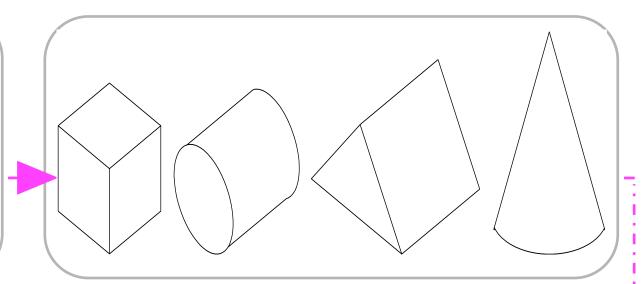


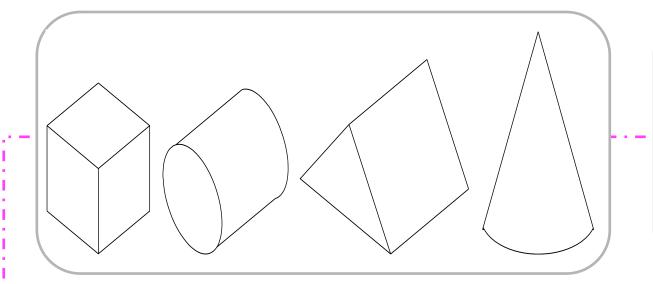
_zΗ_z

<mark>CWO</mark>

WOOD

One of the easiest textures to apply using different shades of brown, orange and yellow. The grain effect is very easy to draw once the object has been shaded.





PLASTIC

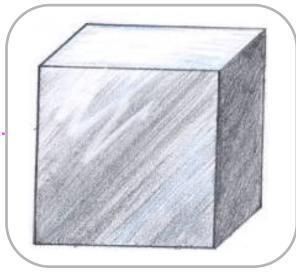
Plastic is one of the more difficult textures to apply as it can be a very reflective surface. Use a technique similar to that of metal. Make sure the reflection lines follow the shape of the object.

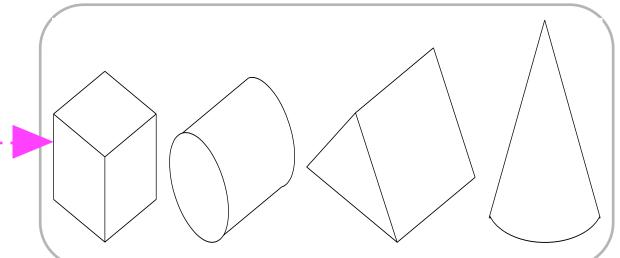
Lesson Objectives / (Nodau Dysgu)

- Pupils should be able to understand how to use texture to enhance a drawing
 Pupils should be able to use their understanding of textures to improve the presentation of given drawings and their folder.
- Pupils should be able to use their understanding of textures to improve the presentation of drawings throughout their folder.

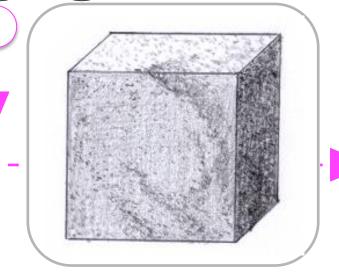
When applying a metal texture, remember your three tone shading. Build up the colour using grey and pale blue, then add reflective streaks as if the light is bouncing off the surface. You can do this using a white pencil or by rubbing out streaks of the base colour.

METAL





Iterative **Rendering** (Textures)

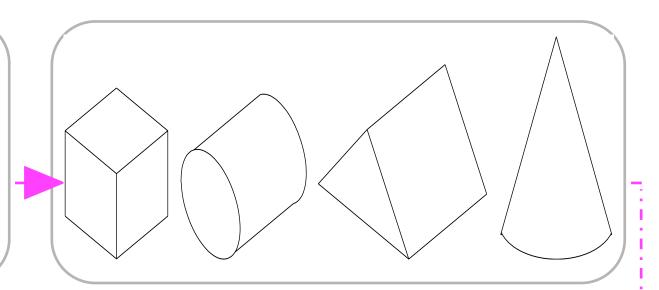


᠂ᠴᢩᡰ

CW

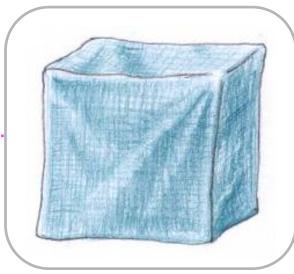
<u>CONCRETE</u>

The easiest way to apply this texture is with a series of dots. Place the dots closer together to create dark areas and further apart to produce lighter areas. Try to make the surface look uneven.



<u>FABRIC</u>

You need to create a soft effect, so avoid using straight lines drawn with a ruler. Soften the edges and apply bold colours using strokes in different directions to give a woven texture. You can also use lots of short pencil streaks to produce a furry effect.





<u>GLASS</u>

Glass is one of the more easy textures to apply as it can be a very reflective surface. Use a technique similar to that of plastic. Make sure the reflection lines follow the shape of the object.

Lesson Objectives / (Nodau Dysgu)

- Pupils should be able to understand how to use texture to enhance a drawing
 Pupils should be able to use their understanding of textures to improve the presentation of given drawings and their folder.
- Pupils should be able to use their understanding of textures to improve the presentation of drawings throughout their folder.