

## Year 5 Art: 3D – Block D

- This is a one-week block.
- The outline and structure of the block is as follows:

Lesson 1	Lesson 2	Lesson 3
Exploration of materials and techniques	Explicit teaching of techniques	Applying knowledge, skills and techniques



Family of Man by Barbara Hepworth (1970)

At the end of this block, pupils will			
Know:	Be able to:		
An armature can be used to create a piece of 3D art	Use armatures to produce 3D forms		
Clay can be joined by a score and slip method	Join two or more pieces of clay		

In this block, pupils will develop visual spatial skills as they look at the shape and form of 3D objects. They will use papier-mâché as well as develop skills to manipulate clay.

CUSP Art Long term sequence	Block A	Block B	Block C	Block D	Block E	Block F
Year 1	Drawing	Painting	Printmaking	Textiles	3D	Collage
Year 2	Drawing	Painting	Printmaking	Textiles & Collage	3D	
Year 3	Drawing & Painting	Printmaking	Textiles & Collage	3D		
Year 4	Drawing	Painting	Printmaking & Textiles	3D & Collage		
Year 5	Drawing & Painting	Printmaking	Textiles & Collage	3D		
Year 6	Drawing	Painting & Collage	Printmaking & Textiles	3D		



## Point of reference: Y5 3D – Block D

Pupils will be able to:

- identify primary, secondary and complementary colours
- use the technique of découpage



- make impressions in a smooth clay surface
- roll and cut clay
- construct 3D forms from wire

### **CUSP Connections:**

No CUSP connections

### **Art History:**

Barbara Hepworth (1903 - 1975)

Dame Jocelyn Barbara Hepworth was a British artist and sculptor who was born in Yorkshire. Hepworth studied at Leeds School of Art from 1920 – 1921 alongside fellow Yorkshire-born artist Henry Moore.

Along with artists such as Ben Nicholson and Naum Gabo, Hepworth was a leading figure in the colony of artists who resided in St. Ives during the Second World War. St Ives had become a refuge for many artists during the war and the wild beauty of the surrounding terrain offered a counter to the disruption and destruction of the war. Her experiences of the Cornwall landscape inspired many of her works, as did her memories of childhood in Yorkshire: "All my early memories are of forms and shapes and textures. Moving through and over the West Riding landscape with my father in his car, the hills were sculptures; the roads defined the form."

### Links to Literature:

Meet Barbara Hepworth by Laura Carlin

We Are Artists: Women who made their mark on the world by Kari Herbert

### **Materials:**

Lesson 1: flour, warm water, paste brushes, tissue paper in analogous colours, newspaper, bowls for use as armatures, PVA glue, whisk

Lesson 2: air-dry clay (terracotta and buff), clay tools, rolling pins or cardboard tubes, plastic film, tins or cans to use as armatures

Lesson 3: air-dry clay (terracotta and buff), clay tools, plastic film, vessels for use as armatures

	Working Artistically					
Shape	Line	Colour	Value	Form	Texture	Space
Shape is a flat (2D) area surrounded by an outline or edge.	Lines are used to show movement and mood.	Colour is used to convey atmosphere and mood.	Value is the intensity of colour and depends on the amount of white added.	Artists use form when they create sculptures. These are 3D shapes.	Texture is the look and feel of a surface.	Space in artwork makes a flat image look like it has form.



## Point of explanation: Y5 3D – Block D

Core Knowledge Explanation	
armature	An armature is a framework or basic structure that something such as a sculpture is built onto.
papier-mâché	Papier-mâché is a material consisting of paper pieces or pulp, sometimes reinforced with textiles, bound with an adhesive such as glue, starch or wallpaper paste.
slip	A slip is a liquid mixture or slurry of clay and / or other materials suspended in water.

Technical Vocabulary	Definition
analogous colours	three colours that are next to each other on the colour wheel (yellow, yellow-green and green)
contour	the outer edges of something: the outline of its shape or form
score	to make a cut or mark on a surface

## Link to video: https://vimeo.com/578778333/f8ed3fd59d

- Explanation and demonstration of taught content
- Lesson by lesson guidance
- Exemplification of techniques and outcomes



# Point of delivery: Y5 3D – Block D

Revisiting prior learning	Taught content	Point of practice	Point of reflection
Use complementary colours to create the illusion of movement  Identify primary and secondary colours  Use the technique of découpage	Define and explore analogous colours  Use an armature to support modelling of soft materials  Explain and explore the effects created by using different modelling materials	Introduce the Knowledge Note and key vocabulary for this block.  Demonstrate how to make papier-mâché. Using a bowl wrapped in plastic film as an armature, pupils apply several layers of small pieces of torn newspaper to the surface, covering each piece of paper with their flour and water paste. Once several layers have been applied, leave to dry. Once completely dry, the papier-mâché bowl can be removed from the armature and the plastic film removed. It can then be painted using acrylic or poster paint.  Refer pupils to previous learning about the colour wheel and revise primary, secondary and complementary colours. Introduce pupils to analogous colours (colours that sit next to each other on the colour wheel). Show examples of these colours. Compare analogous colours with complementary colours. Discuss how, unlike complementary colours, analogous colours are harmonious.  Next, using a bowl wrapped in plastic film as an armature, create a 3D form by attaching multiple layers of tissue and watereddown PVA glue to the surface. Prompt pupils to select tissue in three analogous colours and apply small pieces of the tissue to avoid any wrinkles. Once several layers have been applied, paint a final layer of PVA glue over the surface and leave to dry.  Discuss with pupils the processes they have completed and, once the bowls are dry, evaluate the outcomes.	Can apply layers of torn paper evenly to create a smooth surface  Can use an armature to create a 3D form that, once dry, holds its shape  Can select analogous colours for their harmonious effect
Make impressions in a smooth clay surface  Roll and cut clay	Use an armature to support modelling with clay  Recreate a design by modelling shapes and lines from clay  Apply the score and slip method of joining clay  Explain techniques and processes	Refer pupils to the clay skills they learned in Years 1 and 2. Explain that pupils will apply and build on these skills to create a cylindrical form using two tones of clay (buff and terracotta).  First, pupils draw out a simple pattern on a rectangular piece of paper that is long enough to wrap around a tin or can, leaving a small overlap. The can will be used as an armature to support the clay whilst it is being formed.  Once the design is drawn, pupils use this as a template and roll out a slab of clay to the same size. Pupils recreate their design onto the slab by attaching shapes and lines of contrasting clay using the score and slip method. Once the pattern and decoration has been applied and pushed gently into the slab using a rolling pin, it is then wrapped around the armature. Ensure this has been wrapped in plastic film to avoid the clay sticking. The ends of the slab are then joined securely using the score and slip method. Before the clay dries, the armature will need to be carefully removed. When fully dry, the form can be painted and given a glossy finish with a coat of PVA glue.  Use questioning to elicit pupils' understanding of the techniques they have learned.  Pupils complete Vocabulary Task 1.	Can manipulate and mould clay to form desired shapes and lines  Can join two or more pieces of clay securely using the score and slip technique  Can explain learned techniques



## Point of delivery: Y5 3D – Block D

Revisiting prior learning	Taught content	Point of practice	Point of reflection
3. Use an armature to support modelling with clay  Recreate a design by modelling shapes and lines from clay  Apply the score and slip method of joining clay	Explore methods of creating and combining shapes and coils to build and decorate a 3D form  Apply previously taught techniques to join clay securely  Describe and respond to the methods used	Refer pupils to the skills and techniques they learned in the previous lesson. Explain to pupils that they will apply these techniques to build a decorative coil pot.  Using an inverted bowl or can as an armature, demonstrate how to build the pot by rolling out ropes of clay, creating interesting shapes and coils and attaching them to the surface of the armature. Remind pupils that they must join the coils using the slip and score method wherever the ropes meet another section.  Pupils build up their coils and shapes around the sides of the armature, making sure that the ropes they roll out are thick enough not to crack when scored. Pupils can experiment by making coils, braids, twists and small discs or by combining two colours of clay.  Once the entire pot has been built and has been allowed to dry for an hour, the armature must then be removed carefully.  Once the pot is completely dry, pupils may choose to paint or varnish it.  Allow pupils the opportunity to discuss any challenges they faced and how they overcame them, making suggestions about what they might do differently next time.  Pupils then complete Vocabulary Task 2.	Can roll and manipulate clay to form coils, braids and twists  Can use the slip and score method to join decorative and structural elements  Can identify areas of difficulty and suggest improvements

## **Questions for assessment**



**Why** is it important not to allow the paper to wrinkle when you apply it to the armature?

What is different about the finished bowls?

How does light affect the colours used in the tissue bowl?

What would happen if you used complementary colours?

Why is it important to score the surface of the clay when joining pieces?

What did you find difficult about adding your decoration to the clay slab?

What happens if you roll out the clay too thinly?

How do you make braids or twists from clay?

What effects did you create by using two colours of clay?

What would you do differently next time?



## Oracy and Vocabulary: YŠ 3D – Block D

## Task 1:

Use a thesaurus to help you complete the table with synonyms of the verb score. Two have been done for you.

gouge	nick		

## Exploration: say say



- 1. How does a nick become a gouge?
- 2. What happens if you do not score clay when joining pieces?
- 3. Why is it important to use slip when joining clay?
- 4. What might happen if you roll out clay very thinly?

What happens when clay dries?

How do you stop clay from drying

Is it easier making patterns by scoring into the clay or by adding pieces of clay?

say Task 2: Discuss the questions below.

Explain the meaning of these words to a partner:

score coil slab slip

Explain to a partner the methods you used to make your coil pot.



Explain any problems you experienced and how you overcame them.



What advice would you give a friend to prevent them experiencing the same problems?



Write an emotion word that expresses how you feel about each of the 3D forms you have made.

papier-mâché bowl	
tissue paper bowl	
decorated slab cylinder	
coil pot	



# Vocabulary: Y5 3D - Block D

OWN-it	Analyse 🔊	KNOW-it Definition <b>L</b>
Underline the part of the word that means turn.		Write a definition of the word armature.
	inverted	
Change this	noun to an <i>adjective</i> .	Tick the correct definition of papier-mâché.
conto	our /	□ a mixture of glue and water □ a mixture of paper and glue □ a mixture of paper and water
Tick the cor armature.	rect word class for the word	Which colours are analogous colours? Tick one option.  red, yellow and blue
□ noun □ adverb □ prepositi	on	green, green-yellow and yellow  green, orange and purple
LINK-it	Connect 🗬	USE-it Use in context
	rd that is not a synonym of	Use the word translucent in a sentence.
analogous.	alike	
	comparable	
	dissimilar	
Write two d	lifferent meanings of the word score.	Complete this sentence.
1		is used to pieces of
2		clay and is a mixture of and
Match the s		Tick the box if the word scored has been used correctly in this sentence.
fran	ne score	Tom scored his name into the desk.
cont	our armature	



# Knowledge Note: Y5 3D – Block D

Year 5: 3D



### Core content:

Develop visual spatial skills.

Look at the shape and form of 3D objects.

Use papier-mâché and develop skills to manipulate clay.

## Technical vocabulary:

**Contour** — the outer edges of something: the outline of its shape or form.



**Analogous colours** — three colours that are next to each other on the colour wheel.



**Armature** — a framework or basic structure that something such as a sculpture is built onto.



Slip — a liquid mixture of clay and / or other materials suspended in water.



Score — to make a cut or mark on a surface.



Papier-mâché — a material consisting of paper pieces mixed with glue.



### Connections:

Barbara Hepworth (1903 — 1975) British artist and sculptor



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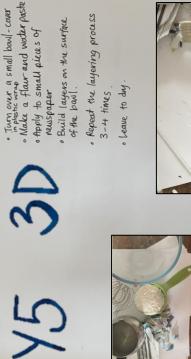


The paste will be used with newspaper to create papier-mâché

Invert a bowl and cover it tightly with plastic wrap

Tear up pieces of newspaper

Make sure the pieces are small so that they will form a smooth surface without wrinkles



Place in a warm location to dry

Drying could take a couple of days depending on the size and the number of layers used



When dry carefully remove the papier-mâché bowl from the armature and gently peel off the plastic wrap

If damp allow for further drying before painting with poster or acrylic paint and then coating with a layer of PVA glue to form a sealant and varnish

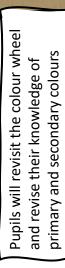


Cover the armature (wrapped bowl) with layers of small pieces of newspaper covering each layer with a coat of the paste

Do three / four layers



Cover the armature with several



Introduce analogous colours (three colours sitting next to each other on the colour wheel)

Pupils will select three analogous colours to use in this activity

Using their chosen colours pupils tear up small pieces of tissue paper Cover the vessel to be used as an armature with plastic wrap

. Make sure you go over the topto.

of forn Assue paper.

. Repeat Several times

Carefully remove the creation from been completed leave to dry (this will take several hours and is best layers of watered-down PVA glue When a number of layers have eft overnight if possible) Peel off the plastic wrap and tissue paper its armature Wheel.
Talk about answ Look at the coles Papils select 3 Apply the glue to small pieces faint with watery pra a bowl with plastic wrap. Cover a container or

The tissue paper will dry translucent and when positioned in a well-lit spot the colours will glow

The PVA glue will give the object a plastic feel



Roll out the clay to the same size as the First pupils produce a design on a piece Don't make the design too complicated container) allowing for a small overlap around a tin can (or another suitable of paper that is long enough to wrap

design and to a thickness of 1cm

Pupils will use the slip and score method to join pieces of clay Slip can be made by mixing a small amount of clay with water.

method to attach the pieces Use the slip and score

of clay.

. Roll ropes of day

Round

Pupils recreate their patterns using rolled and shaped pieces of clay Score the clay where it is to be joined by making short cuts with a clay tool Smear the areas to be joined with a

pressure to ensure there is a seal Join the pieces applying a little

small amount of the slip

Use this as a template - draw your design apiece of paper to fit around sine autside Roll aut clay to this size (1cm thickness) Using a din can orsincilar, measure clay slab pot on tire.

can be used with interesting effect

by just using one type of clay

used here but the same process Two colours of clay have been

Continue to follow the design

applying more pieces of clay

doesn't stick to the clay while rolling stiff cardboard tube wrapped with a A rolling pin can be made from a piece of plastic wrap to ensure it



Thread onto dowel to create a toten pole effect



it around the prepared armature from the work surface and wrap Once the pattern is complete pupils carefully lift their slab





little more slip to ensure a smooth

join has been made

The slab tube will take several

days to fully dry

However clay will shrink as it dries

so it is important to remove the

armature after an hour

Do this carefully and allow to dry

score and slip method and apply a

Join the two sides by using the











about the form and shape fingers dipped in the slip Encourage pupils to talk Smooth any cracks with

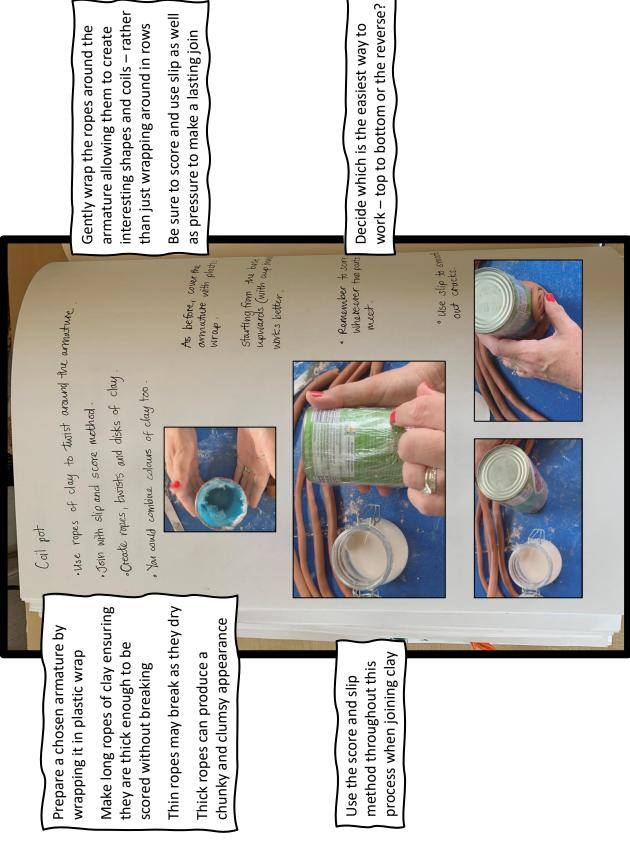
Ask pupils:

they have created

What steps did you find easy in this process? What advice or tips would you pass on?

painted with acrylic or poster paint or threaded onto a piece of dowel and displayed as individual pieces When dry the slab tubes can be to create a totem pole effect







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Experiment by making braids, twists, small discs from the clay or consider combining two colours of clay



Allow time to dry (4-5 days)

remove the pot from After I have the armature.

and given a varnish it can be painted When fully dry

messy and the result isn't too pleasing Could you avoid this by having a damp Combining the two clays can be quite cloth to wipe hands between the colours of clay? Ask pupils:

Which do you prefer using one or two colours? Give reasons for your preference



resting as the clay will shrink as it dries

Remove the can after an hour of

another section

Join the coils with the slip and score method wherever the ropes meet

and then be ready to paint and varnish It will take several days to fully harden

should you want to





challenging for pupils as a lot of scoring is necessary to ensure Coiling the ropes in this way creates interest and is more the pot stays in one piece

