

Date	Class 5th and 6th	Subject Visual Arts
Strand Construction		Strand Unit Making Constructions Looking and Responding
Title Build your own unknown film set		
Objective(s) The lesson enables students to imagine, design and construct their own film set using recycled materials and papier-mache that is based on the Moytirra hydrothermal vent field. The students will experience working in groups and through a creative process develop skills intrinsic to working scientifically.		
Skills Required Imagining, planning, teamwork, designing, drawing, spatial awareness, aesthetic awareness, hand crafting, joining, reflection		
Learning Objectives The students will be able to: <ul style="list-style-type: none"> • Engage in a design process to develop and realise a three dimensional project • Work collaboratively as part of a creative team • Consult peers in the design phase and democratically make decisions • Develop aesthetic awareness and make aesthetic choices accordingly • Respond to and interpret visual stimulus • Develop engineering skills such as creating a balanced structure and selecting materials appropriate to their function • Use three dimensional materials to design and invent. 	Learning Activities Preparation See the recommended lesson plan schedule that supports the module: Build Your Own Unknown. Ask students in advance to collect recyclable waste materials from home such as plastic bottles, containers, juice cartons, cardboard tubes etc. Collect old newspapers. Tear into small strips for use during the papier mache process. Cover surfaces with plastic sheeting / bin liners Students may want to wear an art apron / old shirt to protect their clothing. Design (40 mins) Visual Research Watch source material such as real footage of the Moytirra hydrothermal vent field taken by the Remotely Operated Vehicle <i>Holland I</i> on the VENTure expedition. Generate a discussion around shape, form, texture and colour of this underwater environment (see links below) Alternatively, students can use smart devices to generate their own visual research.	

Planning and Designing

Working in groups and responding to the visual stimulus, ask students to draw their group design of a hydrothermal vent field. Each group will design their own vent section. Each section can be assembled together to create one vent field set.

Encourage design decisions to be made such as scale, height, colour and texture.

Remember to include in the design key features that appear in the storyboard.

Ask each group to share and discuss their designs with each other before beginning the construction stage.

Construction

Referring to the design as a guide, encourage students to select objects from the collection of recyclable materials that replicate the shapes and forms in their own drawings. Use these items to create the base shape of the vent design.

Be inventive! Bend, twist, scrunch the objects into form. Two or more items can be mask taped together to create the desired shapes. Check the stability of the structures every now and then. Can they stand upright? When satisfied with the shape and that they are balanced the structure is now ready for papier mache.

Papier Mache (40 mins)

Papier mache the structure by first applying a layer of diluted PVA glue, then add torn strips of newspaper. Repeat alternate layers of glue and newspaper. A minimum of 3 layers will create a strong structure. For the final paper layer use torn stripes of white / brown paper and seal with a layer of glue to create a neutral surface to paint. Allow to dry.

Assemble the group work to create one hydrothermal vent field set.

Set Decoration (40 mins)

Using sponges, apply a base layer of paint to the surface of the papier mache structure in a dabbing motion. Allow to dry.

Consider introducing other paint effects such as



	<p>flicking and dripping directly onto the surface of the base layer of paint.</p> <p>Consider adding sand, sawdust, glitter, dried crumbled leaves or other textured substances to the paint to add to the effect. Allow to dry.</p> <p>Resources Film footage of Moytirra hydrothermal vent field collected by the ROV on the VENTure mission: https://youtu.be/g0O-KmFwKHc</p> <p>Materials</p> <ul style="list-style-type: none"> • PVA Glue (note PVA can be diluted for papier mache projects) • Newspaper torn into small strips • Recyclable materials such as plastic bottles, containers, juice cartons, cardboard tubes, etc. • Masking tape • Paint (assorted colours) • Sponges • Optional texture materials such as sand, sawdust, glitter, dry crumbled leaves, etc.
<p>Differentiation Mixed ability pairing in groups</p>	
<p>Assessment Teacher observation; Student samples; Oral feedback</p>	
<p>Linkage and Integration English – Writing – Emotional and imaginative development through language. Geography – Natural Environments – Land, rivers and seas of Ireland.</p>	