Teacher(s)	Year 8 team	Subject group and discipline			
Unit title	2d and 3d shape	MYP year	2	Unit duration (hrs)	

Inquiry: Establishing the purpose of the unit

Key concept	Related concept(s)	Global context
Form	Space, model	Exploring creativity in 3d design.

Statement of inquiry

Modelling objects in space as forms can help us explore creativity in 3d design.

Inquiry questions

Factual -

How can we classify the ways in which we can move shapes around on a 2d co-ordinate grid? How can we work out the volume of a cuboid? How can ber work out the volume of a prism? How can we design a net to make a 3d shape? What additional elements do we need with the net to make the 3d shape a coherent shape that doesn't fall apart?

Conceptual—

What is volume and how does it link to capacity? What is surface area? What are the properties of transformations (reflection, rotation and translation)?

Debatable—

What is the best way to model the volume of an irregular 3d shape? What is the best 2d net to give a stable cuboid 3d shape? Does this depend on the method of construction? What is the best way to represent 3d shapes in 2d?

Objectives	Summative assessment
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Assessment 1:	Assessment !:
Outline of summative assessment task(s) including assessment criteria:	Relationship between summative assessment task(s) and statement of inquiry:
G: the goal is design a smoothie box. R: your role is as a product designer. A: your audience is the firm that make smoothies. S: the situation is that the company want to make a box for 12 smoothies subject to various requirements. P: you will produce a report. S: this assessment will be assessed under criterion D	Students model objects in space as forms and use this to explore creativity in designing a smoothie box
Assessment 2: (if used in the unit)	Assessment 2:
Outline of summative assessment task(s) including assessment criteria:	Relationship between summative assessment task(s) and statement of inquiry:
	Outline of summative assessment task(s) including assessment criteria: G: the goal is design a smoothie box. R: your role is as a product designer. A: your audience is the firm that make smoothies. S: the situation is that the company want to make a box for 12 smoothies subject to various requirements. P: you will produce a report. S: this assessment will be assessed under criterion D Assessment 2: (if used in the unit) Outline of summative assessment task(s) including

Approaches to learning (ATL)

In order for students to understand how modelling objects in space as forms can help us explore creativity in 3d design they will need to build consensus. Explicitly taught and practised skill strategy: this is explicitly taught in block 2 lesson 2 where students explore the possible surface areas for a shape but need to build consense on the assumptions made to come to a conclusion.

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