#### Computing

# Lesson 5: Planning my own 3D Model

**3D Modelling** 

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## Task 1 - Grouping and modifying multiple 3D objects

Open <u>oaknat.uk/comp-m6m5-1</u>

Select Copy and Tinker

Follow the instructions on the next two slides.



## Task 1 - Grouping and modifying multiple 3D objects

Create a hole in the cube. Remember to drag the hole 3D shape onto the solid 3D shape, then group the 3D objects.

B Drag the sphere onto the cylinder. Group the 3D objects and drag them to the centre of the 3D space.



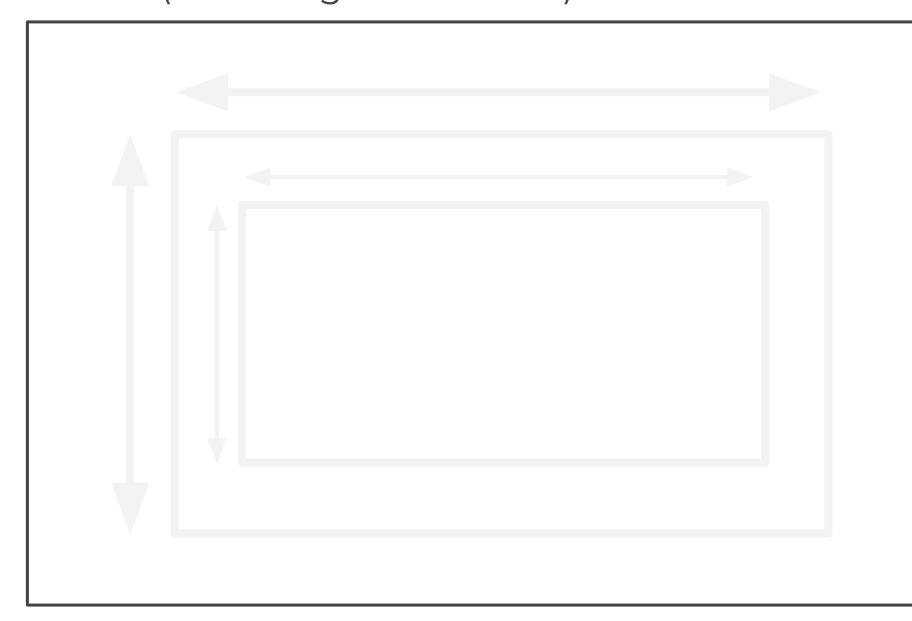
# Task 1 - Grouping and modifying multiple 3D objects

	Drag the triangular prism to the top of the cube. Group the 3D objects and write down the dimensions of the grouped 3D object in mm:				
С		Length:	Width:	Height:	
	Resize the grouped 3D object so that it is <b>double</b> its original size. Write down the new dimensions in mm:				
		Length:	Width:	Height:	
D	Rotate and drag the cone and place it on top of the cylinder. Group the 3D objects and write down the dimensions of the grouped 3D object in mm:				
		Length:	Width:	Height:	
	Resize the grouped 3D object so that it is <b>half</b> its original size. Write down the new dimensions in mm:				
		Length:	Width:	Height:	



### Task 2 - Designing a 3D model

Tinkercad measurements are displayed in millimetres (mm). Sketch your photo frame design. Sketch (including dimensions)



#### Essential features

Space for a photo (152 mm x 102 mm)

#### Desirable features

- Stand
- Attractive design
- Holds more than one photo

Possible enhancements



### Task 3 - Planning a 3D model

For each stage, think about the 3D shapes required and any modifications that are needed, such as changing the size or angle of rotation.

1.	2.	3.
Notes:	Notes:	Notes:
4.	5.	6.
Notes:	Notes:	Notes:

