



YEAR 9

# GRAPHICS

## CUBOID

NAME: \_\_\_\_\_

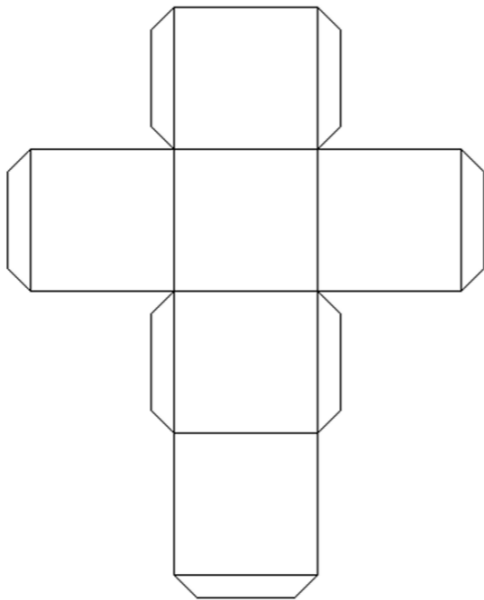
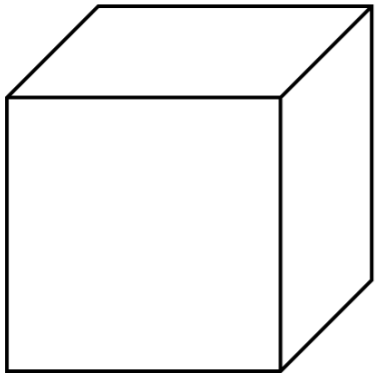
TECHNOLOGY GROUP: \_\_\_\_\_

TECHNOLOGY TEACHER: \_\_\_\_\_

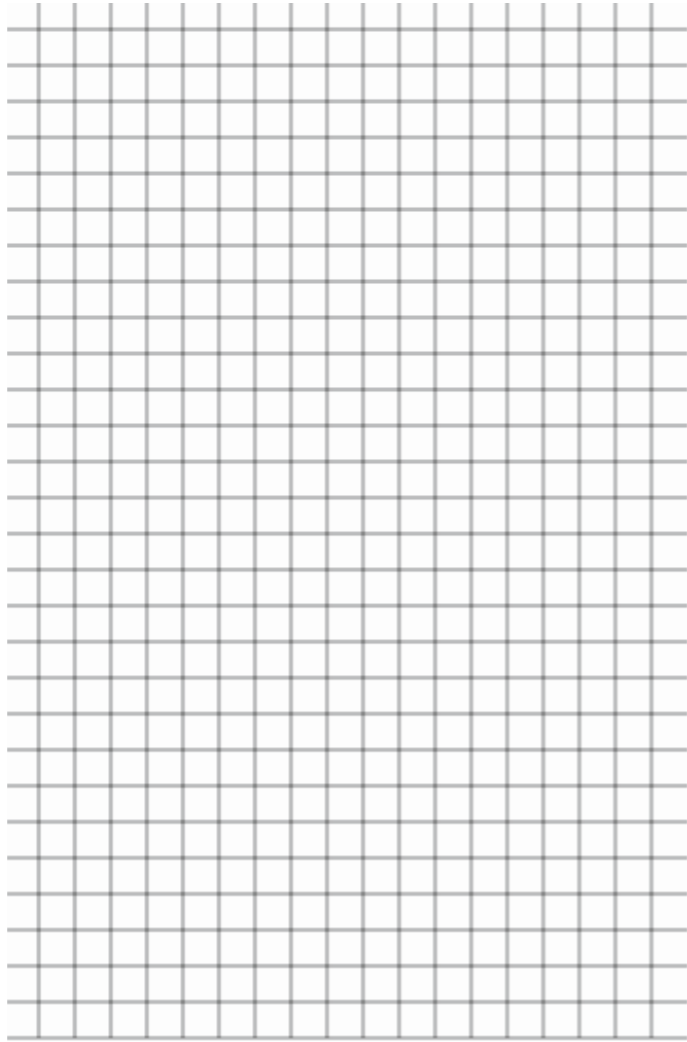
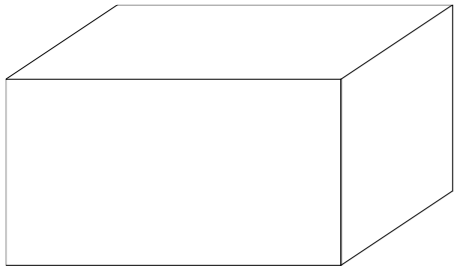
Know it — Knowledge		Date
I know..	How to draw neatly freehand	
I know..	How to render to give a high quality block colour	
I know..	How to combine freehand sketches and rendering to give a high-quality design idea	
I know..	How to fold paper to make a cuboid net.	
<b>Prove it—</b> I will be able to make a high quality corner bookmark with an animal theme		
<b>Link It—</b> The skills I will learn in the project will be used for every part of Design Technology from now onwards		
<b>Say it- Vocabulary</b>		
Score		
Layout		
Inspiration		
Net		

Creating a net

**Task**—Look at the 3D image below and compare it to the net. Have a go at labelling the net with the following labels: Top , Bottom, Front, Back, Left and Right.



**Task**—Look at the 3D image below and using the grid try and accurately draw its net.

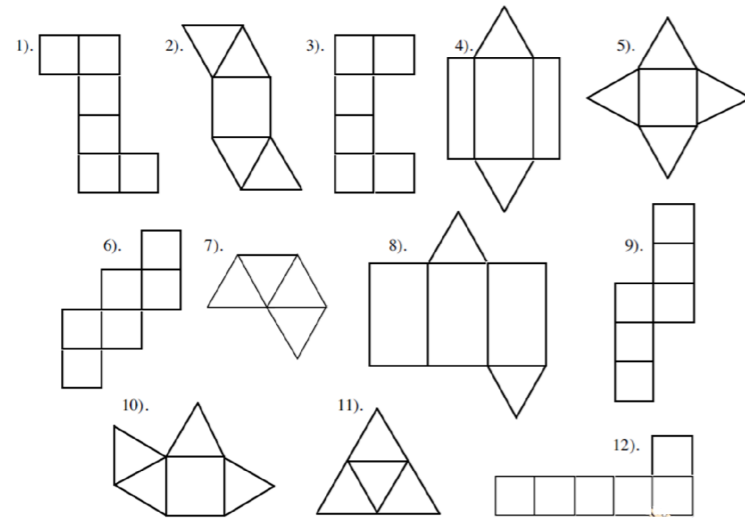


Assessment Criteria

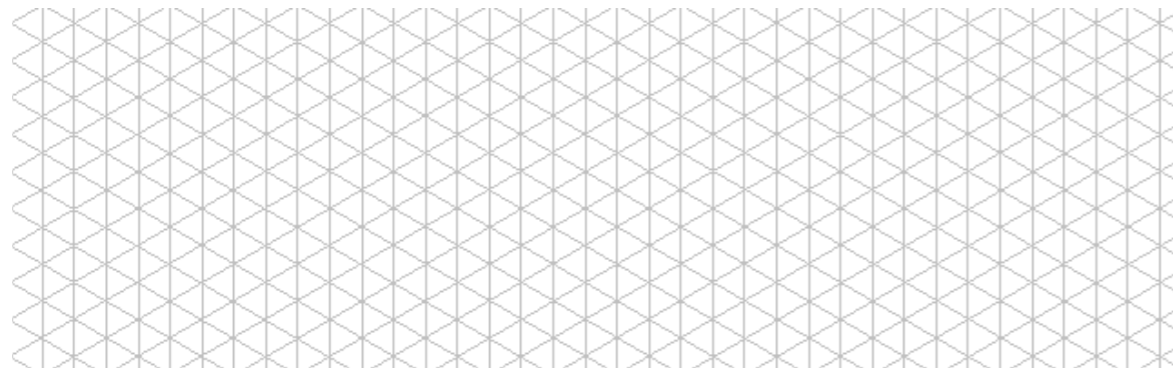
Assessment objective	Working Below	Working Towards	Working At	Greater Depth
I can draw neatly freehand	My lines are not usually straight, shapes are sometimes accurate but line quality is quite poor.	My lines are quite straight and sometimes parallel, shapes are quite accurate and neat, line quality is good.	My lines are straight and parallel, shapes are accurate and neat, Line quality is generally excellent.	My lines are straight and parallel, shapes are very accurate and neat, line quality is always excellent.
I can render to give a high quality block colour.	I have used a single colour and mostly coloured within the square.	I have used colour in the square and shown some levels of accuracy around the edges.	I have used solid block colour to fill the square and have few visible pencil lines and have not gone over the edge.	I have used solid block colour to fill the square and have few visible pencil lines and have not gone over the edge. I have also managed to get a variation in tone.
I can combine freehand sketches and rendering to give a high-quality design idea.	I have added colour to my freehand sketch.	I have used colour on my freehand sketch and shown some levels of accuracy around the edges.	I have used solid block colour to enhance my design. I have also combined a few shapes to make a design.	I have used solid block colour to enhance my design. I have also combined a few shapes to make a design. I have evaluated WWW and EBIs for my designs.
How to fold paper to make a cuboid net.	I have drawn a net.	I have added colour to my net and folded it correctly.	I have added block colour to my net and have folded the net to make a cuboid. My design has some consideration to what my client would like.	I have added block colour to my campervan net and have accurately folded the net to make a cuboid. My design takes into account the full needs of my client.

# Do It Know Tasks

Task 1—Which of the following nets would form a 3D shape?

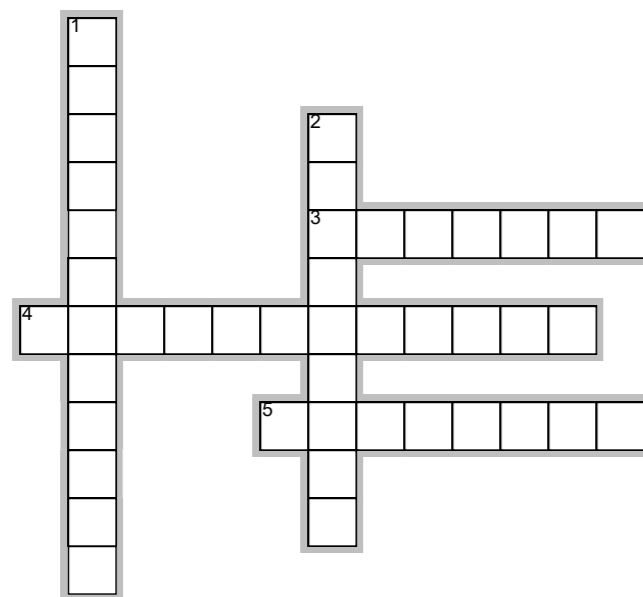


Task 2—Draw a cube in isometric

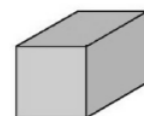


Task 3—Accurately render your cube from task 2. Consider where the light will be coming from.

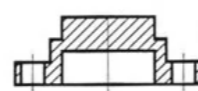
Task 4—Put the names of the drawing types into the crossword.



Across  
3.



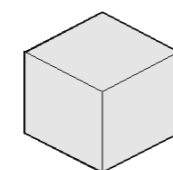
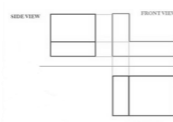
4.



5.

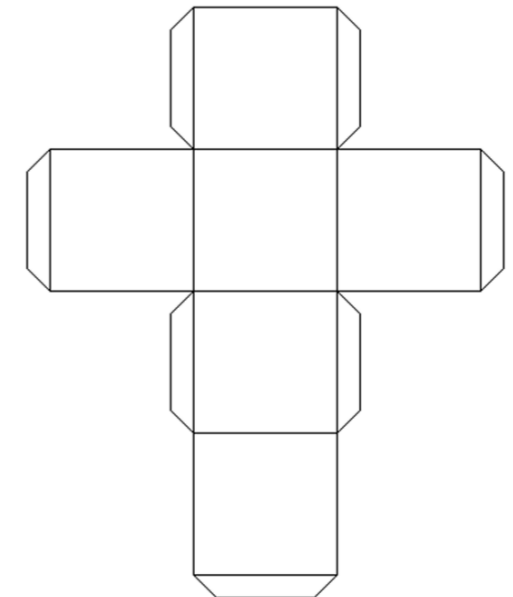
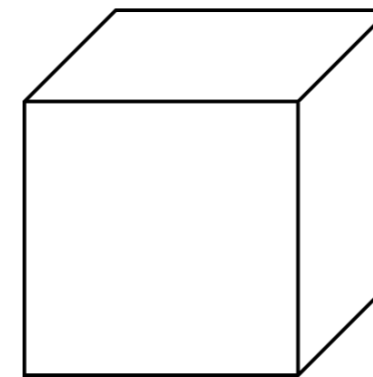


Down



## Creating a net

**Task**—Draw and make a net on a sheet of plain paper. Your cube must be 50mm x 50mm x 50mm. The picture below can be used to help you. Remember to add tabs to glue it together.



**Task**—Using the skills you have learnt in previous years. Render the campervan accurately considering where the light sources are coming from.



Design Ideas

**Task**—Write a paragraph describing the type of client you want to design your campervan for. You need think about their age, hobbies, interests, where they want to use the campervan and what would make it appealing to them.

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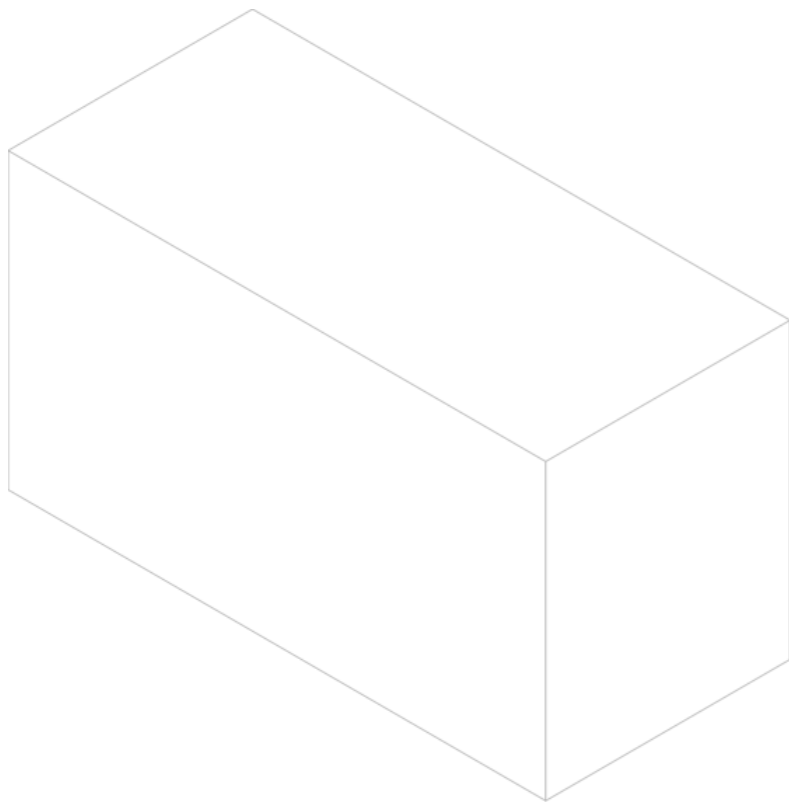
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**Task**—In the space below and on the next page draw out 3 different designs for your campervan, showing what the exterior would look like. You must consider what your client will find appealing. You should try to draw them in isometric and they must include labels justifying your decisions.



Design Ideas

**Task** — On a separate sheet of paper accurately draw out your net and then choose you best design idea to create a 3D model of it. Your design must include colour, and take into account the needs of your client.