

# Year 9 Mathematics Learning Journey: Unit 5 - Three Dimensional Shapes

Step 12(H): Cones, pyramids and spheres

Recall the formula to calculate the volume of a pyramid.

Step 11: Volume of other 3-D shapes

Find the volume of the triangular prism in step 8.

Step 10: Volume of cubes and cuboids

What is the difference between finding the volume and finding the surface area of a cube or cuboid?

Step 9: Surface area of a cylinder

Find the surface area of a cylinder that is 40cm wide and 40cm high. Give your answer in terms of  $\pi$ .

Step 5: Plans and Elevations

Draw the front elevation of this shape.

Step 6 (R): Area of 2-D shapes

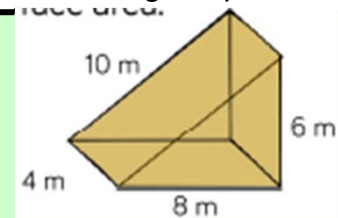
What is the formula for the area of a circle?

Step 7: Surface area of cubes and cuboids

Find the surface area of a cube with sides 20cm.

Step 8: Surface area of triangular prisms

Find the total surface area of the triangular prism.



Step 4: Sketch and recognise nets

Sketch two different nets of a cube

Step 3: Accurate nets of cuboids

Draw an accurate net of a cuboid with sides 3cm, 4cm and 5cm.

Step 2: Recognise prisms

Is a cylinder a prism?

Step 1: Names of 2-D and 3-D shapes

What is the same and what is difference about a cylinder and a cone?



resilience



COLLEGE