

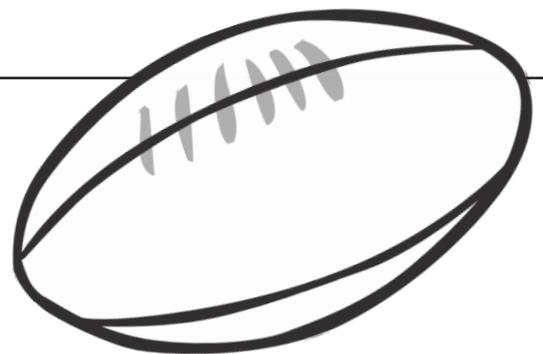
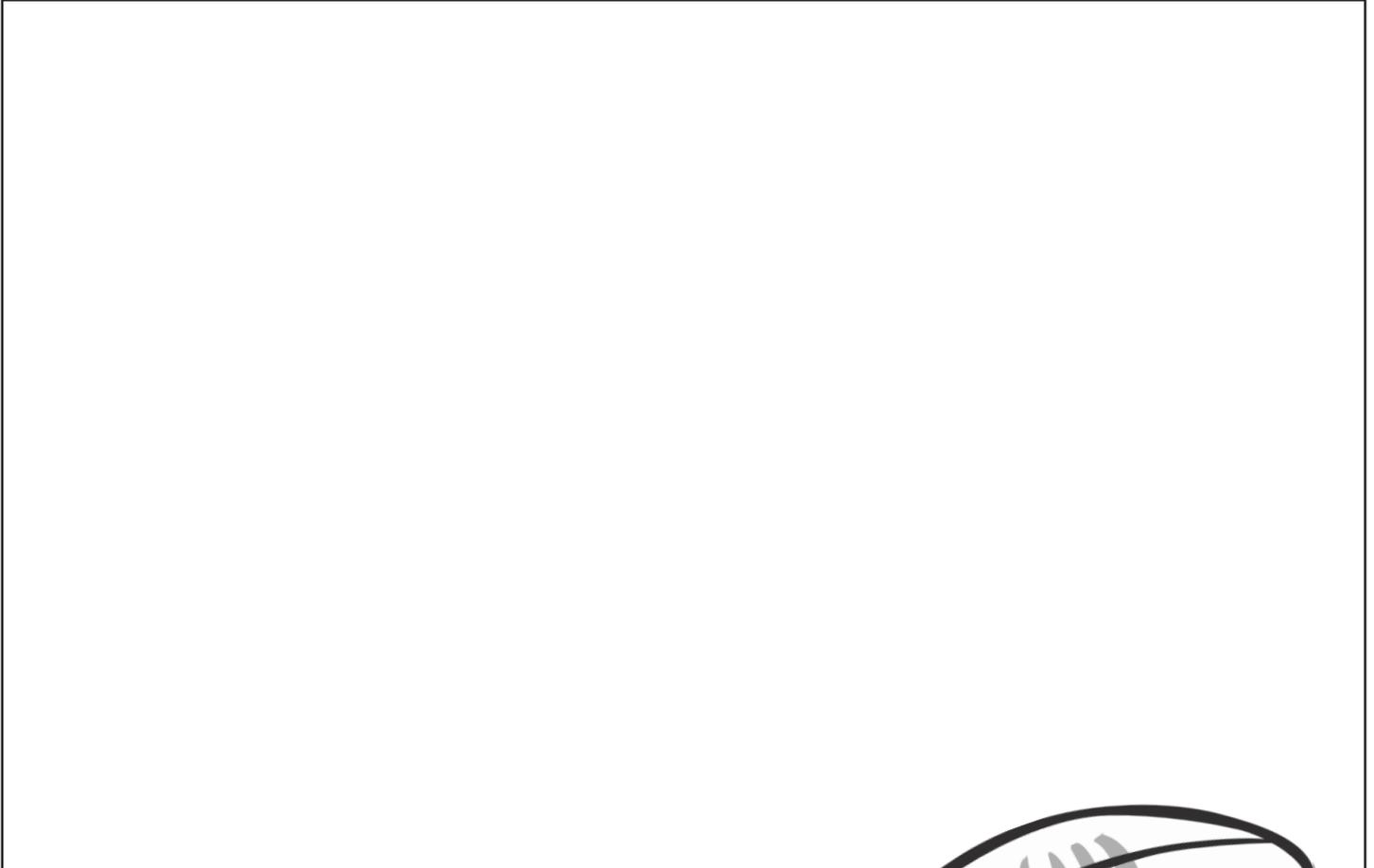
AFL Football 3D Net Open-Ended Task

I can construct simple prisms. (ACMMG140)

What shape is a football?

Your task is to create a net that when folded will make a 3D football.

Once you have successfully made a net using blank A4 paper, draw your net design below.



Task Reflection:

What prior knowledge did you use during this task?

What did you find tricky about this task?

What did you learn during this task?

Teacher/Lesson Information

This open-ended task can be used at the introduction of the topic, during explicit teaching or as an assessment item at the end of the teaching/learning cycle.

Learning Task: Students are required to determine what shape an AFL football is in order to design a net to create that shape.

The open-ended lesson is generally broken into the below format.

- As a whole class spend **five minutes** introducing the task (read through the question/problem and identify important information, discuss time for completing the task and how to work in the zone of confusion/ get out of the pit).
- Students work for **5 minutes** independently in the 'zone of confusion' (tackling the task by themselves, using 'tools' to get out of the 'pit').
- Students can seek 'four before me' and workshop ideas with peers whilst working for a further **15 minutes** on the task.
- During students working time the teacher moves around the room offering support and posing questions to students to gain a deeper understanding of their knowledge of the topic being covered.
- The class are then brought back together where some student work is projected on the whiteboard and discussed (with the use of a visualiser/camera/interactive whiteboard or drawn on the board by the student). Student samples are carefully chosen to demonstrate growth in learning and a variety of possible methods to complete the problem. Students are given the opportunity to explain their solutions.

Students will complete the above question without the use of technology. Students will show their net design and completed net.

Answer:

Students are required to draw a design of the net.

Students are required to produce a 3D football shape using the net they designed.