

Shape Lines

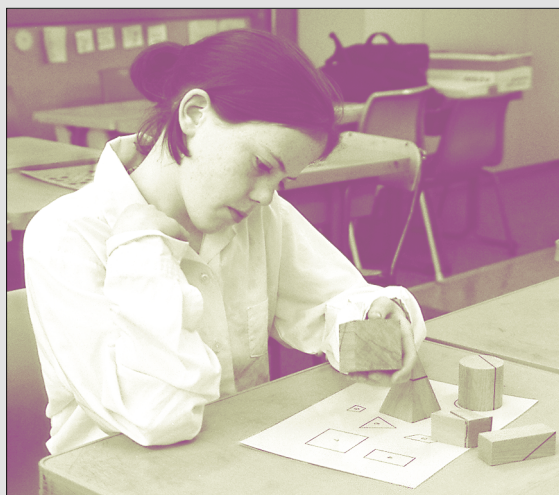
Approach: One to one

Level: Year 8 only

Resources: Wooden wedge, cut and hinged, 4 other wooden shapes marked with red lines, a card showing several different shapes.

Questions/instructions

% responses
year 8



In this activity I am going to show you some solid shapes with lines drawn on them. Here is an example.

Show student the cube and point to the line around the cube.

Imagine that I am going to cut through this shape on this line. I want you to think about what the face of the shape would look like after the cut was made.

Here is an example.

Place the Shape Lines Board in front of the student.

Hold the two pieces of the wedge shape together and show them to the student.

1. Here is a shape that has already been cut through the line. The line went around here. [Point along cut.] What would the shape of the face where it was cut look like?

This board shows a range of different shapes and sizes.

Which shape on this board would match the face on the solid shape after it was cut?

If student doesn't point to the small rectangle, say

It would be a rectangle or oblong shape like this one. [Point]

Open two pieces and show the student the shape of the cut face.

Now try match the shapes for these solid objects if they were cut.

Show the cube.

2. Imagine that I cut on this line.

Which shape on the board would match the cut face of this solid?

shape 6

93

Show the rectangular solid.

3. Which shape would match the cut face of this solid?

shape 4

68

Show the pyramid.

4. Which shape would match the cut face of this solid?

shape 2

79

Show the cylinder.

5. Which shape would match the cut face of this solid?

shape 7

28

Commentary

Students had most difficulty with question 5, looking for curved shapes rather than the correct answer (rectangle).