Space and 30 Shape

Maths Year 3 Lesson 5 of 5

Slides
Cube, Cuboid, Triangular Prism, Pyramid, Pentagonal Prism and Octahedron Net sheets
Oried spaghetti (FSD? activity only)
Plasticine (FSD? activity only)
Challenge Cards (FSD? activity only)
BD Shapes
Opaque bag
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Teaching Input

- Explain that a 3D net shows a 3D shape that has been unfolded. We can make 3D shapes by folding these nets up.
- Show children the various nets on the slides. Can you guess what shape this will make when it is folded up? Children to think, pair, share their ideas. Encourage children to describe how they knew what shape it would be from the properties.

Main Activity					
Lower ability:	Middle ability	<u>y:</u>	Higher ability:		
Provide children with the Cand Cuboid Net sheets. Suchildren in cutting out the rolling them up to create a shape.	upport Prism Net and Challenge cl	nd the Pyramid Net. hildren to cut out the d them up to create a	Provide children with the Pentagonal Prism Net and the Octahedron Net. Challenge children to cut out the nets and fold them up to create a 3D shape.		

This could be done as a mixed-ability group challenge. Children could work in groups to make one of each shape and then stick each finished shape to a large sheet of paper. Children can the write a description of each shape next to it to create a 3D shape poster.

Fancy something different...?

- Explain that another way to make 3D shapes is to use dried spaghetti and plasticine. The spaghetti creates the edges and small balls of plasticine join them together at the vertices.
- Provide children with one of the Challenge Cards, some spaghetti and some plasticine. Children to work through one challenge at a time. Lower ability children should start with simpler shapes such as cubes and cuboids.
- When finished, children could create a display out the shapes they have created.

<u>Plenary</u>	Assessment Questions
Put a 3D shape in an opaque bag and ask a child to come out and put their hand in the bag and guess the shape. How did you know what shape it was? Repeat this with other children and other shapes.	