

Download Open Ended 3d Shape Activities

This problem challenges pupils to transfer a 2D representation of a 3D object into a model of the object itself. The practical context provides a need for children to use positional language. One hint suggests starting from an 'end' of the object, but however the problem is approached, there is no doubt that the relative positions of the cubes must be considered. We began with this open ended provocation set out to familiarize the children with both 2D and 3D shapes. According to Dr. Small, "we often confuse students when we use a concrete, or 3D representation for a 2D shape in order to allow students to manipulate the shape, for example, a yellow pattern block for a hexagon. The good thing about these simple open ended activities is that each child can tailor their creations to their own level. Making the 3D shapes was a little trickier than the boys thought it was going to be. They have to use their problem solving skills to work out how to get the shapes to stand up well but it was a fun challenge for them. These 2D and 3D shape activities include games, worksheets and net templates. The posters help kids to describe the properties of common 2D and 3D shapes. The activities are suitable for kids in kindergarten, first grade, second grade and third grade.