

Math

- The 3D paper hand puppets involved understanding geometric shapes, such as cones, spheres, and cylinders, which are 3D objects often encountered in mathematics.
- Measurement and scale were used when creating the puppets. Understanding the proportions and dimensions of the parts allowed for accurate construction.
- Patterning and symmetry were essential in designing the paper puppets. Folding and cutting the paper to create mirrored or repeating patterns can reinforce the understanding of mathematical symmetry.
- Calculating angles and perspectives might have been involved in assembling the paper puppets. Understanding and visualizing spatial relationships helps with 3D construction.

Encourage further exploration of geometry and measurement by creating more intricate paper puppets, involving more complex shapes and patterns. Use this activity to introduce the concept of volume and surface area by challenging the student to calculate these properties for their paper creations.

Book Recommendations

- [The Paper Puppet Book: Easy-to-Make Puppets from Newspaper, Magazines, and Household Materials](#) by Eleanor M. Yamauchi: This book offers a variety of paper puppet projects that can be made from everyday materials, providing creative inspiration for young learners.
- [Geometry and Measurement in Paper Folding: Papers from the 2nd International Meeting on Origami in Science, Mathematics, and Education](#) by Thomas Hull: This book explores the mathematical concepts behind origami and paper folding, providing a deeper understanding of geometry and spatial relationships through hands-on activities.

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