

Art

- The child learned how to use popsicle sticks and hot glue to create a boat shape.
- They explored different ways to decorate the boat using paint, markers, or other art materials.
- The child practiced using their creativity and imagination to design a unique boat.
- They learned about the importance of following safety guidelines when using hot glue.

Math

- The child measured and cut the popsicle sticks to create the boat's structure, practicing their measurement skills.
- They counted and grouped the sticks to ensure they had enough to build the boat.
- The child experimented with different shapes and sizes of boats, exploring concepts of geometry and spatial awareness.
- They calculated the weight capacity of the boat by estimating the weight of objects it could hold before sinking.

Science

- The child learned about the properties of materials, understanding how the hot glue acts as an adhesive to hold the popsicle sticks together.
- They explored the concept of buoyancy, understanding how the boat floats on the water due to the displacement of water by its hull.
- The child experimented with different hull designs to determine which shape provided the best stability and speed.
- They observed the effects of water resistance and drag on the boat's movement.

For continued development, encourage the child to experiment with different boat designs and materials. They can try using different types of glue, such as white glue or tape, to see how it affects the boat's structure and buoyancy. Additionally, they can explore the concept of propulsion by attaching a small propeller or experimenting with different methods of moving the boat through the water.

Book Recommendations

- [The Boat Book](#) by Gail Gibbons: This book provides an informative introduction to boats, including different types of boats and their purposes.
- [The Popcorn Book](#) by Tomie dePaola: While not directly related to boats, this book explores the science behind popcorn popping, which can spark the child's curiosity about how things work.
- [The Magic School Bus Takes a Dive: A Book About Coral Reefs](#) by Joanna Cole: This book takes the Magic School Bus on an underwater adventure, teaching children about marine life and ecosystems.

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