

## Art

- The child can learn about basic engineering and design by creating their own catapult using popsicle sticks, which encourages creative thinking and problem-solving skills.
- Through creating and decorating their catapult, the child can explore concepts of color, shape, and pattern, enhancing their artistic expression.

## Math

- The child can learn about measurement and distance by experimenting with different force levels to launch objects and observing the trajectory of the launched items.
- They can also engage in simple counting and sorting activities as they gather popsicle sticks and other materials needed for the catapult.

## Science

- The child can explore basic principles of physics by observing how the catapult works, including concepts of force, motion, and energy transfer.
- They can also learn about simple machines and mechanical advantage through the hands-on experience of building and using a catapult.

Encourage continued development by inviting the child to experiment with different materials and designs to see how it affects the performance of their catapult. Encourage them to discuss what they observe and think about why certain changes may have made a difference. This can foster a deeper understanding of engineering and scientific principles in a fun and interactive way.

## Related Educational Toys and Games

- [Learning Resources STEM at Play Boom! Combustion Science Kit](#) by Learning Resources: This kit allows kids to explore chemical reactions and create their own safe, hands-on experiments, promoting scientific inquiry and discovery.
- [ThinkFun Gravity Maze Marble Run Brain Game and STEM Toy for Boys and Girls Age 8 and Up](#) by ThinkFun: This toy introduces children to spatial reasoning and planning skills as they build their own marble run challenges.
- [Learning Resources Gears! Gears! Gears! 100-Piece Deluxe Building Set](#) by Learning Resources: This set encourages children to explore engineering and problem-solving skills as they design and build their own gears and machines.

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