

## Math

- The child can learn about measurement by estimating and measuring the distance the rock travels after it hits the water.
- They can practice addition and subtraction by keeping track of how many rocks they threw and how many are left.
- They can explore geometry by observing the different shapes the ripples make in the water.
- The child can also learn about patterns and sequencing by organizing the rocks in different sizes or colors before throwing them.

## Science

- The child can learn about force and motion by observing how the rock moves through the air and then into the water.
- They can study the concept of buoyancy by noticing how the rock floats or sinks in the water.
- The child can explore the properties of water by observing how it reacts to the impact of the rocks.
- They can also learn about cause and effect by understanding how throwing a rock creates ripples in the water.

Continued development related to this activity can include experimenting with different size rocks and observing how they affect the ripples or trying to throw the rocks at different angles to see how it changes their trajectory. Another creative way is to draw or document the observations in a science journal or create a mini-exhibit with the rocks and photographs of the ripples.

## Book Recommendations

- [Water Dance](#) by Thomas Locker: This book beautifully illustrates the movement and flow of water and can inspire further exploration of the subject.
- [Rock Collecting](#) by Roma Gans: This book introduces children to the world of rocks and minerals, including how they are formed and where to find them.
- [The Water Princess](#) by Susan Verde: This book tells the story of a young girl who dreams of having clean water and can help children understand the importance of water conservation.

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