

## Science

- The child learned about simple machines and how they can be used to create mechanisms, such as the pulley system used to lift the castle door.
- They gained an understanding of force and how it is applied to open and close the door.
- The child explored the concept of mechanical advantage and how it relates to the efficiency of the pulley system.
- They learned about the importance of balance and stability in the design of the castle door to prevent it from tipping over.

For continued development related to the activity, the child can try experimenting with different types of simple machines to open and close the castle door. They can also explore the concept of energy transfer and how it is involved in the movement of the door. Additionally, they can research different mechanisms used in medieval castles and compare them to the one they built.

## Book Recommendations

- [The Door in the Wall](#) by Marguerite de Angeli: A historical fiction novel set in medieval times that follows the journey of a young boy who becomes crippled and finds a new purpose within the walls of a castle.
- [Castle: How It Works](#) by David Macaulay: This book provides an in-depth look at the construction and inner workings of a medieval castle, including its doors and defenses.
- [Medieval Science and Technology](#) by Don Nardo: Explores the scientific and technological advancements made during the medieval period, including the engineering behind castle structures and mechanisms.

If you click on these links and make a purchase, we may receive a small commission.