

## Core Skills Analysis

### Science

- Through building the Titanic Lego, the student gained an understanding of buoyancy and its role in keeping the ship afloat.
- Exploring the design of the Titanic model helped in learning about engineering principles such as stability and structural integrity.
- The activity sparked curiosity about the history of the Titanic, leading to discussions about its construction and eventual fate.
- By engaging in the building process, the student learned about scale models and how they represent real-life objects.

### Mathematics

- Measuring and calculating the dimensions of the Lego pieces to construct the Titanic model improved the student's spatial awareness and estimation skills.
- Counting and sorting the different types of Lego bricks enhanced the student's counting and categorization abilities.
- Following the instructions step by step aided in understanding sequencing and order of operations.
- Comparing sizes and shapes of Lego bricks contributed to the student's understanding of geometry and spatial relationships.

### Tips

Building the Titanic Lego can be a fun and educational activity for young learners. To further develop their skills, encourage the student to experiment with designing their own Lego creations, explore additional historical facts about the Titanic, and try building more complex structures to enhance problem-solving abilities while having fun.

### Book Recommendations

- [The Lego Ideas Book: Unlock Your Imagination](#) by Daniel Lipkowitz: This book provides inspiration for building various Lego creations, encouraging creativity and exploration.
- [Magic Tree House Fact Tracker #7: Titanic: A Nonfiction Companion to Magic Tree House #17: Tonight on the Titanic](#) by Mary Pope Osborne and Will Osborne: An informative book about the Titanic, perfect for young readers interested in history and facts.
- [Math Potatoes: Mind-stretching Brainfood](#) by Greg Tang: A math-focused book that presents fun and challenging math puzzles and activities for elementary school students.