

Core Skills Analysis

Engineering

- The student demonstrated an understanding of stability and balance by constructing a house with wheels that could move without toppling over.
- Problem-solving skills were enhanced as the student had to figure out how to make the beds stable within the Lego house on wheels.
- Spatial reasoning skills were developed as the student had to plan and build a structure that included functional aspects like beds inside a moving house.
- Creativity and innovation were showcased in designing a unique Lego house that incorporated both living and transport elements.

Mathematics

- The student applied basic measurements and counting while assembling the Lego pieces to create the house with dimensions that accommodated beds.
- Concepts of perimeter and area might have been indirectly reinforced as the student had to ensure the beds fit within the confines of the Lego house.
- The idea of ratios and proportions could have surfaced when deciding the size of the beds in relation to the overall size of the moving house.
- Critical thinking was encouraged as the student had to estimate and calculate where to place the beds within the limited space.

Tips

Engage the student in discussions about potential improvements or modifications to the Lego house design. Encourage them to explore different ways to make the structure more functional or visually appealing.

Book Recommendations

- [The Lego Ideas Book: Unlock Your Imagination](#) by Daniel Lipkowitz: This book provides a range of Lego building ideas and inspires creativity in constructing unique structures.
- [Rosie Revere, Engineer](#) by Andrea Beaty: A storybook that encourages young readers to embrace their creativity and pursue engineering projects.
- [DK Workbooks: Math, Pre-K](#) by DK: A workbook that introduces basic math concepts in a fun and engaging way for young learners.