

## Core Skills Analysis

### Math

- The 4-year-old developed spatial awareness and understanding of shapes as they built different towers using the magnet tiles.
- Through trial and error, the student learned about balance and stability when creating taller structures with the tiles.
- The activity likely enhanced the child's counting skills as they estimated the number of tiles needed for each tower.
- The student may have also unknowingly improved their basic addition skills by figuring out how many tiles to add to make the tower higher.

### Science

- The child explored the concepts of attraction and repulsion as they experienced how the magnet tiles connected or pushed away from each other.
- The activity introduced the basic idea of magnetism to the student, helping them understand how magnets work in a hands-on way.
- The 4-year-old likely developed problem-solving skills by trying different ways to connect the magnet tiles to build stable towers.
- The student may have observed and learned about patterns and symmetry while creating repetitive designs using the tiles.

### Tips

To further enhance the learning experience from building magnet tile towers, consider introducing challenges like building bridges or structures with specific requirements like height or number of tiles. Encourage the child to explore different shapes and experiment with creating more complex designs. Ask open-ended questions to prompt scientific thinking, such as why certain shapes are more stable than others. Providing a variety of magnet tile sizes and shapes can also spark creativity and innovation in their constructions.

### Book Recommendations

- [Magnet Max](#) by Monica Brown: Follow Max as he explores the wonders of magnets in this interactive and engaging book for young readers.
- [Shapes, Reshape!](#) by Susan Hood: Join the characters as they build and rebuild using different shapes, incorporating basic math concepts in a fun and playful way.
- [Magnificent Magnets](#) by Michael Dahl: Discover the magic of magnets through simple explanations and colorful illustrations, perfect for young curious minds.