# **Core Skills Analysis**

### Mathematics

- Jax demonstrated an understanding of fractions by correctly identifying and naming fractions such as 1/2, 1/4, and extending to less common fractions like 1/5, 1/6, and 1/7.
- By using the fraction magnetic board, Jax practiced spatial recognition and placement of fraction pieces, reinforcing his comprehension of part-whole relationships.
- Writing fractions on the activity sheet helped Jax connect the visual representation of fractions to their symbolic notation, strengthening his fraction literacy.
- Analyzing partitioned shapes to identify the fraction represented by the shaded section introduced Jax to real-world applications of fractions within geometry and visual patterns.

## **Number Patterns and Shapes**

- Jax explored number patterns through sequencing fractions and recognizing proportional relationships between different denominators.
- Using shapes partitioned into equal parts enhanced Jax's understanding of geometry linked to fractions, emphasizing that fractions describe parts of a whole shape.
- Engaging with visually partitioned shapes allowed Jax to build foundational skills in spatial reasoning and geometric division.
- The activity incorporated identification of patterns in how shapes are divided, helping Jax develop pattern recognition skills essential in both math and reasoning.

#### Tips

To deepen Jax's understanding of fractions, consider introducing practical activities such as dividing everyday objects (like fruit or snacks) into fractions to link abstract concepts to real life. Encourage Jax to compare fractions using visual aids and number lines to solidify his grasp of relative size. Additionally, incorporate games that involve fraction addition and subtraction to further develop his computational skills. Exploring storybooks or interactive apps focused on fractions can maintain engagement and expand conceptual awareness. Continual practice with partitioned shapes and varied denominators will help Jax master fractions beyond simple halves and quarters.

## **Book Recommendations**

- <u>Fraction Fun</u> by David A. Adler: An engaging introduction to fractions using simple explanations and colorful illustrations tailored for young learners.
- <u>The Hershey's Milk Chocolate Fractions Book</u> by Jerry Pallotta: Uses chocolates and real-life examples to teach children about fractions in a fun and relatable way.
- <u>Apple Fractions</u> by Jerry Pallotta: Explores fractions through apple-themed stories that make understanding parts of a whole enjoyable and concrete.

## Learning Standards

- ACMNA012 Recognise and describe one-half as one of two equal parts of a whole.
- ACMNA013 Recognise and interpret common uses of halves, quarters and eighths of shapes and collections.
- ACMNA018 Investigate and represent unit fractions including 1/2, 1/4, 1/3, 1/5 from simple shapes and collections.
- ACMMG019 Recognise and classify familiar two-dimensional shapes and three-dimensional objects using obvious features.