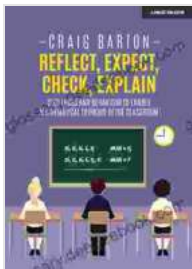


# Sequences and Behavior to Enable Mathematical Thinking in the Classroom

Sequences are a powerful tool for developing mathematical thinking in the classroom. They can be used to teach a variety of mathematical concepts, including number patterns, algebra, and calculus. Sequences can also be used to develop problem-solving skills, critical thinking skills, and communication skills.



## Reflect, Expect, Check, Explain: Sequences and behaviour to enable mathematical thinking in the classroom by Craig Barton

★★★★☆ 4.8 out of 5

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When students work with sequences, they learn to identify patterns and relationships. They also learn to make predictions and generalizations. These skills are essential for success in mathematics and in other areas of life.

In addition to their cognitive benefits, sequences can also be used to promote positive behavior in the classroom. When students work together to solve problems involving sequences, they learn to cooperate and

communicate with each other. They also learn to persevere when faced with challenges.

Here are some examples of how sequences can be used in the classroom to teach a variety of mathematical concepts:

- **Number patterns:** Sequences can be used to teach students about number patterns. For example, the sequence 1, 2, 3, 4, 5 is a simple arithmetic sequence. Students can learn to identify the pattern in this sequence and to predict the next number in the sequence.
- **Algebra:** Sequences can be used to teach students about algebra. For example, the sequence 1, 4, 9, 16, 25 is a quadratic sequence. Students can learn to write an equation for this sequence and to use the equation to find the next number in the sequence.
- **Calculus:** Sequences can be used to teach students about calculus. For example, the sequence 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{16}$  is a geometric sequence. Students can learn to find the limit of this sequence and to use the limit to find the sum of the sequence.

Sequences are a versatile tool that can be used to teach a variety of mathematical concepts. They can also be used to promote positive behavior in the classroom. By incorporating sequences into your mathematics instruction, you can help your students develop their mathematical thinking skills and their ability to cooperate and communicate with others.

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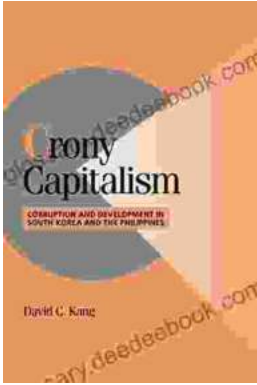
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