



Welcome to Identifying and Creating Patterns with Simple Sequences

Patterns are all around us, and learning to identify and create them is a fundamental skill in mathematics. In this activity sheet, we will explore simple sequences and patterns, and have fun creating our own.

This activity is designed for 8-year-old students who are just starting to learn about patterns and sequences.

What is a Pattern?

A pattern is a repeated design or sequence of elements, such as colors, shapes, or numbers. Can you think of some examples of patterns you see in your everyday life?

Draw a picture of a pattern you see in your everyday life.

Write a short sentence describing the pattern.

Identifying Patterns

Look at the following sequences and identify the next item in the pattern:

1. Red, blue, red, blue, ____
2. 2, 4, 6, 8, ____
3. Square, circle, square, circle, ____

Write the next item in each sequence.

Creating Patterns

Create your own pattern using the following materials:

- Colors: red, blue, green, yellow
- Shapes: square, circle, triangle, rectangle

Draw a picture of your pattern.

Write a short sentence describing your pattern.

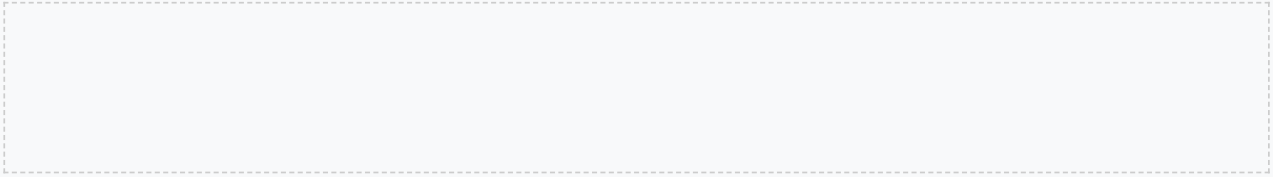
Pattern Blocks

Use the following pattern blocks to create a pattern:

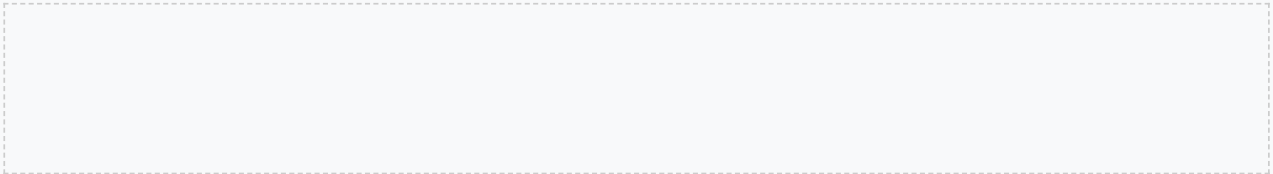
- Red square
- Blue circle
- Green triangle
- Yellow rectangle



Draw a picture of your pattern.



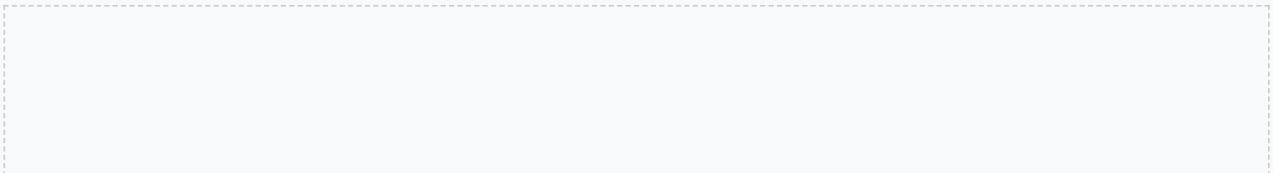
Write a short sentence describing your pattern.



Number Patterns

Look at the following number sequences and identify the next item in the pattern:

1. 1, 2, 3, 4, 5, __
2. 2, 5, 8, 11, 14, __
3. 3, 6, 9, 12, 15, __

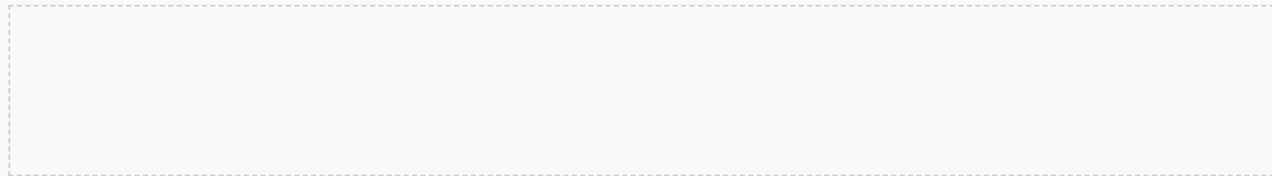


Write the next item in each sequence.

Shape Patterns

Look at the following shape sequences and identify the next item in the pattern:

1. Square, circle, square, circle, ____
2. Triangle, rectangle, triangle, rectangle, ____
3. Circle, square, circle, square, ____

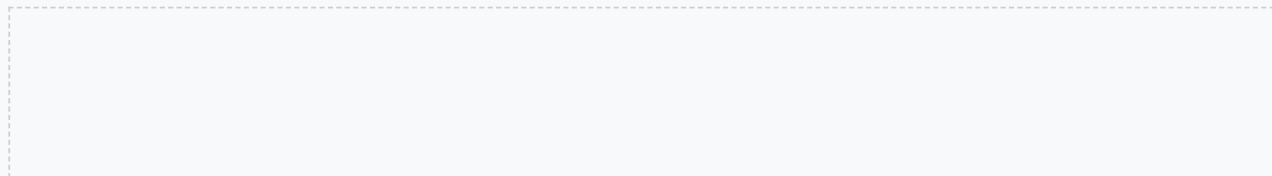


Draw a picture of the next item in each sequence.

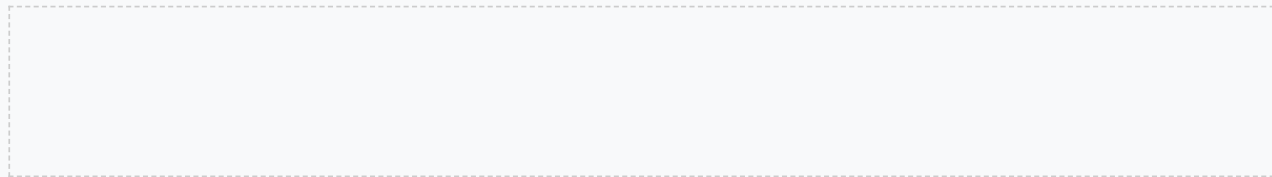
Real-Life Patterns

Find examples of patterns in your everyday life, such as:

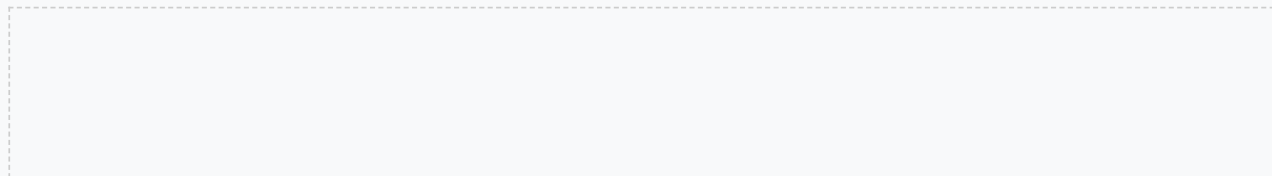
- The arrangement of leaves on a stem
- The pattern of days in a week
- The sequence of colors in a rainbow



Draw a picture of a pattern you found.

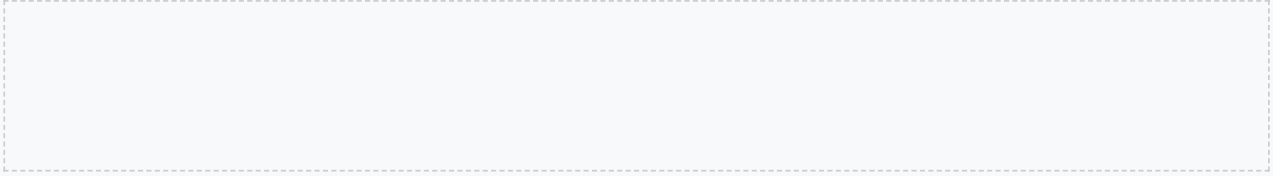


Write a short sentence describing the pattern.



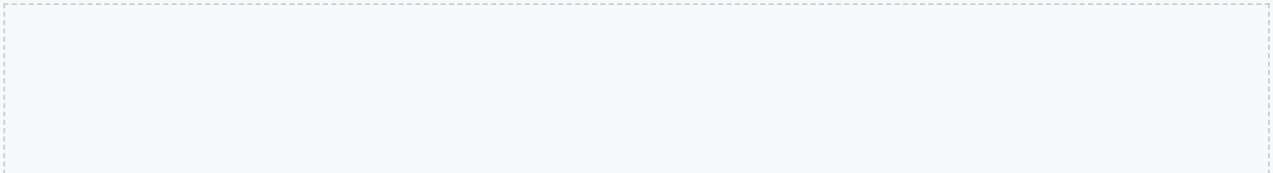
Pattern Scavenger Hunt

Go on a scavenger hunt around your classroom or home to find examples of patterns. Write down or draw a picture of each pattern you find.

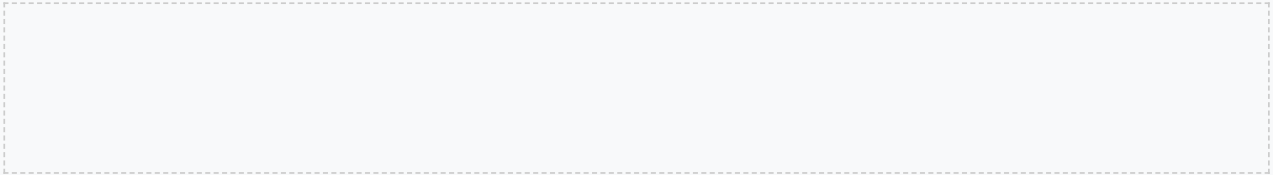


Create a Pattern Story

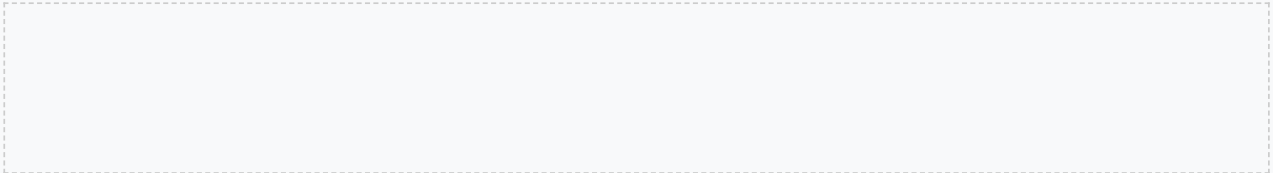
Create a short story that incorporates a pattern. Use your imagination and have fun!



Write your story.



Draw a picture to illustrate your story.



Pattern Reflection

Individual Reflection:

1. What was the most surprising thing you learned about patterns today?

2. How will this learning change your actions in the future?

3. What questions do you still have about patterns?

Pattern Challenge

Create a new pattern using a combination of colors, shapes, and numbers. Can you come up with a unique and interesting pattern?

Pattern Gallery

Create a gallery of your favorite patterns from this activity sheet. You can draw or write about each pattern, and explain why you like it.

Pattern Sharing

Share your patterns with a partner or in a small group. Can you find any similarities or differences between your patterns?

Pattern Extension

Choose one of the patterns from this activity sheet and extend it by adding more elements. Can you create a new and interesting pattern?

Pattern Creation

Create a new pattern using a different material, such as blocks, LEGOs, or playdough. Can you create a 3D pattern?

Pattern Games

Play a game with a partner or in a small group using patterns. You can create a pattern and ask your partner to continue it, or you can take turns creating patterns.

Pattern Puzzles

Create a puzzle using patterns. You can create a pattern and ask your partner to solve it, or you can take turns creating puzzles.

Conclusion

Congratulations on completing this activity sheet! You have learned about patterns and created your own. Remember, patterns are all around us, and learning to identify and create them is a fundamental skill in mathematics.

Final Reflection

Final Reflection:

1. What did you learn about patterns in this activity sheet?

2. What was your favorite activity?

3. What do you think you will use patterns for in the future?