

## Circle, Circle, Square



### Curriculum Connections:

**Grade 2 – Math and Visual Arts**

**Patterns and Repetition, STEAM Learning**

STEAM (Science, Technology, Engineering, Arts and Math) is problem solving based learning, a way for students to use their natural curiosity through cross curricular activities. This lesson will combine math and visual arts to allow for creative problem solving.

The key curriculum points are:

Math: Patterns

C1.1 - identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts. Patterns may involve attributes such as colour, shape, texture, thickness, orientation, or material.

Visual Arts: Repetition

D1.2 demonstrate an understanding of composition, using principles of design to create narrative art works or art works on a theme or topic (e.g., use repetition of colour throughout an image that communicates a story)

Pattern and repetition help to create a sense of movement within an artwork. Patterns within math contain series or sequence of shapes and numbers that repeat.

The lesson below looks at art and artifacts from the PAMA collection. Students will be able to see the use of patterns in different ways. Students can predict the patterns as well as create their own.

## Let's Get Started

Patterns are found all over PAMA's collections. Let's take a look!

Use the two images below to answer the following questions.

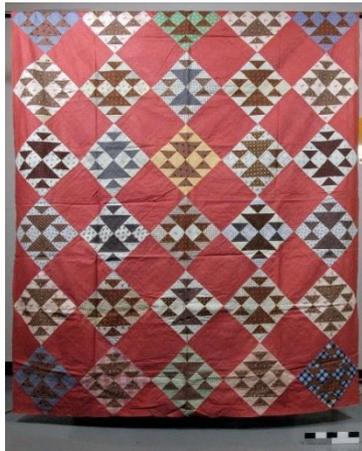


Do you see repetition in this piece of art?

What shapes are repeated? Is it a pattern?

If you had to continue the pattern, what would it look like?

David Bolduc, Canadian (1945-2010)  
Dover Rain, 2001  
acrylic on canvas  
114.3 x 134.62 cm  
Peel Art Gallery, Museum and Archives  
ART.2007.242.002  
Gift of Martin Zucker, 2007



What colours and shapes do you see in this quilt?

What is the pattern?

What is repeated?

Can you predict the rest of the pattern?

Handsewn quilt top done in the  
Double X pattern, 9.5" pieced  
blocks joined with same size fine  
red print block

## Closer Look

### The Log Cabin Quilt



The **log cabin pattern** was a very popular pattern used to create quilts. It is made up of rectangles stacked to look like logs of wood. The diamond patterns are meant to represent barn raisings.

The center of the quilt is usually red, representing the fire at the heart of the house. Rotating or alternating light and dark fabric pieces makes the pattern.

This handmade log pattern quilt was created around 1890 by Brampton resident Hannah Nixon. She used fabric left over from her career as a dressmaker in the 1870s and 1880s.

The artworks reproduced here are used under the Fair Dealing provision of the Canadian Copyright Act for educational purposes and are only intended to be used for those purposes. Further reproduction of these artworks for other uses is not permitted without consent from the copyright holder.

## Make your Own

Now that you have studied patterns, it's time to make your own!

Pick some colours and geometric shapes and create your own pattern using the template below. Make your pattern as easy or as complicated as you want.



PEEL  
ART GALLERY  
MUSEUM +  
ARCHIVES


## Extension Activity

Continue to explore repetition and patterns in the exhibitions below. Why do artists use patterns in their artwork? Create a painting using patterns of your own. Use any paint you have and create an abstract painting using repetition and patterns. Share your artwork with your class. Discuss what patterns you chose and how you put them together.

### PAMA's Virtual Art Exhibitions

[Simon Hughes: Works, 2001 - 2020](#)

[Art Voice: Expression from Youth in Peel](#)

[Home: Expressions in Abstraction](#)

To learn more about the elements of art check out our [poster](#).

Share your creations with [@visitpama](#) on Twitter, Facebook or Instagram!