

Student Handout (Grades K - 2)

Introduction:

In the book we are reading, Ojig's quilt is made of many shapes and patterns. The First Nations University in Saskatchewan also has a patterned floor. Today, we're going to explore these patterns and create some of our own using tangram tiles!

Part 1: Observing Patterns

- Look at Ojig's Quilt:



- What shapes do you see?

- What colors do you see?

- Describe the patterns you see:



- Look at the First Nations University Floor



- What shapes do you see?

- What colors do you see?

- Describe the patterns you see:

- Are there similarities or differences between the quilt and the floor patterns?



Part 2: Creating Tessellations

- **What is a Tessellation?** Tessellations are patterns made of shapes that fit together without any gaps or overlaps.
- **Using Tangram Tiles:** Use the tangram tiles (physical or online) to create your own tessellation pattern.
 - Create a pattern that is meaningful to you and tell your classmates about it.

Part 3: Deeper Thinking

- Do you see any symmetry in the quilt, the floor, or your own design?

- Are there any patterns or symbols that are important to you, your family, or your culture?

- Where else have you seen tessellations or patterns in the world?

