



Manaiakalani

Class OnAir



Episode Title: Tessellate My Football

Teacher: Clarelle Carruthers

School: Pt England School

Year Level: Year 4

Lesson Topic: Maths, Reading, Art

Learning Intention:

Students will be learning to:

- to create tessellations using simple shapes.
- to identify tessellation we see in the real world

Links with the
[New Zealand Curriculum](#)

English Level 2 Processes and strategies

Select and use sources of information, processes, and strategies with some confidence to identify, form, and express ideas.

Purposes and audiences

Show some understanding of how texts are shaped for different purposes and audiences.

Maths Level 2 Geometry and measurement

Measurement

Shape

Sort objects by their spatial features, with justification.
Identify and describe the plane shapes found in objects.

Transformation

Predict and communicate the results of translations, reflections, and rotations on plane shapes.

Art Level 2 Understanding the visual arts in context

Share ideas about how and why their own and others' works are made and their purpose, value, and context.

Key
[Competencies](#)

Thinking:

-Children will be thinking about their world and examples of math in it. They will be working together to share their thoughts and ideas. They will be thinking about



	women's football and sharing what they learned from their research. Understanding Symbols, Languages and Texts: -Children will create two visual texts sharing what they have learned about being able to share and describe them. Relating to others: .-Children will listen to and develop an understanding for the ideas shared by others. Managing Self: -Children will have to manage their time to create a piece of art and share what they learned on their blog. Participating and contributing: -Children will participate in a group and actively engage with each other.
Prior Knowledge	Children have had one previous lesson on tessellation in which they tessellated simple shapes (squares) this activity is also shared in blog links.

Lesson Sequence

In this session, the children and I will explore different types of tessellation looking closely at our environment and sharing what we know about tessellation.

Before the Session	Teacher will: -Put resources on Maths learning page. -Make sure shapes are ready -Create an example piece of art.  -Source videos and websites to support multi model learning. -Prepare art resources for children to use.
During the Session	What are we learning Teacher shares the focus for the lesson. to create tessellations using simple shapes. to identify tessellation we see in the real world Discussion: What is happening in our country at the moment? Discuss the football world cup. What do we know about Tessellation? What example can we see? Watch the video and discuss what we learned. Teacher sets up group activity and discussion collaboration on a Google Slide.



	Group work: Children work in groups to create their own slides sharing different tessellations that they see around them or have seen outside of school. They write sentences about these. The teacher supports as required with digital skills and clarifying what is a tessellation. Group Sharing: Each group shares what they have found and we make connections between the different sharing that takes place. Connecting to Football: Discuss the tessellations on a football. Connect this to what we just learned. Talk about the shape we see and get someone to come and find it. What does it mean to trace? What do we do around the edges?
After the Session	Creating Art Children create their art using the circle and hexagon shape. They have to research what information to share and think carefully about this. Sharing Art Children make a video sharing the art and what they learned.

Learn Create Share Breakdown

Learn	What is a tessellation, Where do we find them in the real world? What do we notice about them? How are footballs a tessellation?
Create	Create the slides sharing tessellations in real life. Create a piece of football art. Create a video about what they learned.
Share	Blog Post: children share the video on their blogs. Family: Children take art home to share with their family what they learned. Class: Children share throughout the process what they have learned to their learning group.

Resources Used	Shapes Video Art Example Paper Crayons Paint
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Reflection

Reflection on Lesson Sequence	The sequence of the lesson was good and we covered a lot especially given the limited time. What I liked about the lesson sequence was that we had variety and movement, each activity building onto the next without too much down time. The biggest challenge was getting to the video recording stage as children were so invested in their art and I as a teacher need to work on making sure they have quality time for this stage. Many of the children shared in class and with family but sadly didn't get time to share to their blogs.
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Next Steps

To build on tessellating standard shapes to thinking about how translation can help us to create different art.

