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Territory Acknowledgement



Burnas Prairie in Abbotsford with Mt. Baker in the background. Photo is from before the flood of 2021.



It is with great pleasure and pride to speak to you as a member of the University of Fraser Valley in Abbotsford, British Columbia, Canada, whose campuses are located in the traditional unceded Territory of the Stó:lō Nation, or known as the "River People".



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CIRCLE C SHARING:

- My experience with the 'Beadwork + Mathwork Community Project' (2021-2022)
- **Objective:** Learning to bead together and explore mathematical ideas, patterns, and connections to Indigenous perspectives.



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Community Beading



- **Project:** We engaged in beadwork and mathwork (over 5 sessions) while contributing to a larger social action collective project – the community “hyper-blanket” (Artist’s sample below).



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Community Beading



- **Materials, plus more:**



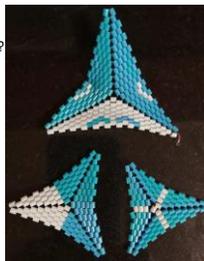
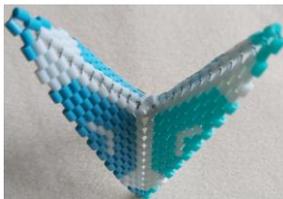
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Sessions 2-4: From Triangles to Hyper-Squares



Beadwork + Stories + Mathwork

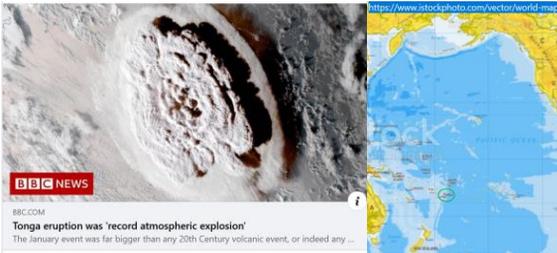
1. What/who inspired you – how did you get started?
2. What are you trying to do?
3. What are you learning?
4. What's next?



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Beadwork + Stories + Mathwork: All ARE Relational

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Volcanic Eruption and Tsunami in Tonga: Jan 15, 2022



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Challenge:

How can I bead circular rings within a hyper-square to tell the story of this explosion?



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SURPRISE: A single hyper-square tells more than one aspect of the story!



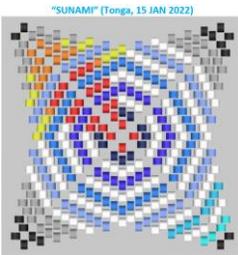
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Beadwork + App + Mathwork = Story

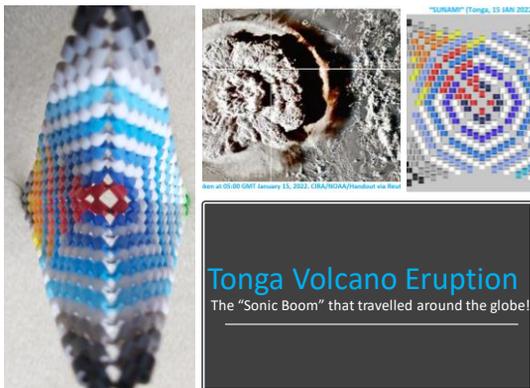
App: <https://beadographer.com/>

Add colours



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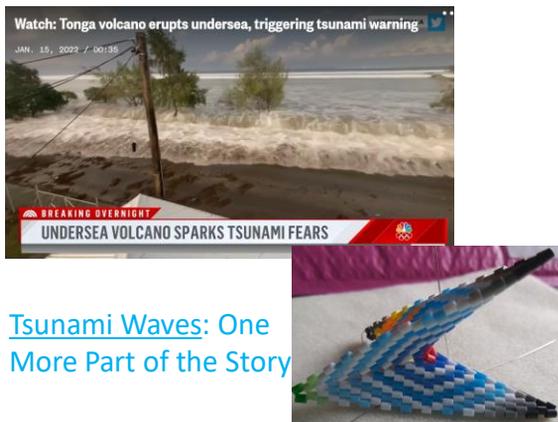
Twin Volcano Islands: One Part of the Story.



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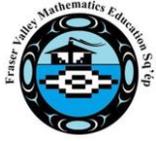


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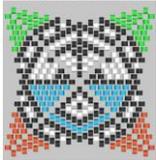


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Beadwork + Mathwork = More Excitement



"SOEP" (FV, 15 MAR 2022)



Note: The additional colours of green and orange represent the Community and 'Reconciliation'.

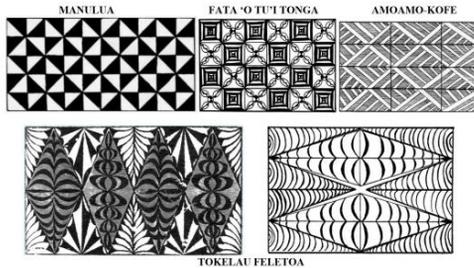


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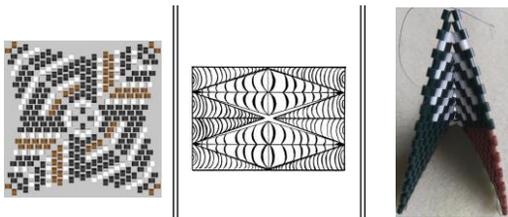
Beadwork + Stories + Mathwork = Explorations

1. What/who inspired you – how did you get started?
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TONGAN KUPESI (TRADITIONAL DESIGNS)



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Beadographer + Design = Hyper-Square

“Tokelau Feletoa”

[A Tongan “kupati” (traditional design): has its own story, significance, and value.]

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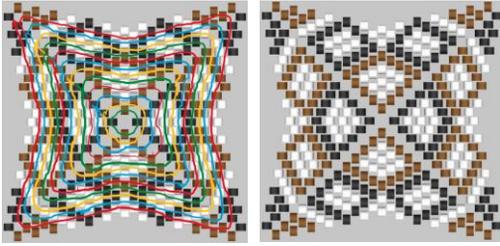


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Pattern of the "Spiral" Beading Process



Patterns in the First Five Spirals:

Spiral 1: 1 + 1 + 1 + 1

Spiral 2: 2 + 2 + 2 + 2

Spiral 3: 2 + 1 + 2 + 1 + 2 + 1 + 2 + 1

Spiral 4: 2 + 1 + 1 + 2 + 1 + 1 + 2 + 1 + 1 + 2 + 1 + 1

Spiral 5: 2 + 1 + 1 + 1 + 2 + 1 + 1 + 1 + 2 + 1 + 1 + 1 + 2 + 1 + 1 + 1

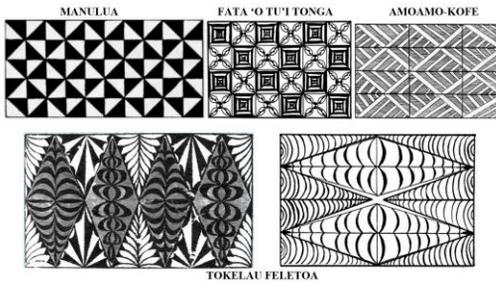


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THE NEW FRONTIER

Why the interest in exploring the Tongan traditional designs with beads?

TONGAN KUPESI (TRADITIONAL DESIGNS)



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Inspired by my mom (far right, with two of her sisters) who used to be a traditional Tongan tapa art-designer!

Tapa-Making and the Art of Traditional Designs

"Tokelau Feletoa"



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My Mom's Traditional Tongan Tapa Designs at St John's College, UBC.



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My Mom's Traditional Tongan Tapa at Special Family Occasions.



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I can't wait to bead some more....

Malo 'Aupito – Thank you Very Much!



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