

INDIGENOUS MATH SYMPOSIUM 2021

DAVID SUFRIN SHARING CIRCLE

INDIGENOUS MATH CONNECTIONS

LINK

https://viuvideos.viu.ca/media/DAVID+SUFRIIN+CIRCLE+SHARING+INDIGENOUS+MATH+CONNECTIONS/0_ysp90spq

This is a video of the slide show David shared at the UBC Indigenous Math Symposium 2021

David shares his beliefs about the nature of mathematics and math education. He believes in the “Two Hands” philosophy of the late Aunty Ellen Rice White who believed students’ learning must be grounded in both Indigenous and Western knowledge. David is a strong believer in interdisciplinary and experiential learning and briefly describes a cross-curricular unit called “Grandmother Moon”.

OTHER RESOURCES

Below are links to the activities referred to in the Sharing Circle.

INDIGENOUS MATH CONNECTIONS YUPIK KAYAK DESIGN

Power Point with teacher’s notes

The activities here are inspired by the booklet Math in a Cultural Context Kayak Design, Detselig Enterprises University of Alaska. This slide show allows students to explore the rich mathematics involved in Yupik kayak design. It also includes activities on creative writing and art.

Power Point Presentation Yupik Kayak Design Cross-Curricular Activities

https://drive.google.com/file/d/1hudjGjpANQ-7L_DdZdb863UHNQMnwX_7/view?usp=sharing

Teachers Notes to Yupik Kayak Design Cross-Curricular Activities

https://drive.google.com/file/d/144_Jkfr9W8l5w_mAqzs4iXf7-ENU8qk1/view?usp=sharing

INDIGENOUS MATH CONNECTIONS BUILDING AN IGLOO

These links include a slide show giving detailed instructions of how to build a scale model of an igloo, plus a student created “Math Infographic” about igloos.

Instructions

https://drive.google.com/file/d/1u4GR_Mukf_IVjHJevAJtA8GVbWoqI2M/view?usp=sharing

Math Infographic

https://drive.google.com/file/d/1xqzCPyHMx1hHufG1_s1-JQSwGAUMqry8/view?usp=sharing

INDIGENOUS MATH CONNECTIONS GRANDMOTHER MOON

This is a cross-curricular project created for grade 8 students, which seeks to respectfully incorporate Indigenous Ways of Knowing in Math and English Language Arts, and Art. Students will learn some Indigenous teachings around Grandmother Moon, and work in groups of 4 to graph the moon's illumination over the course of a year. They will use this data to create a Moon Calendar that reflects their own experience of living in place and time.

<https://sites.google.com/gsuite.viu.ca/grandmothermoon>