

ZMATH 2016d.00881

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Using graph theory to understand First Nations connections.

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Summary: Children of the Earth High School in Winnipeg, Manitoba, is a school dedicated to incorporating Aboriginal perspectives into all areas of the Manitoba curriculum and is attended by an almost exclusive Aboriginal population. Many of these students come from a First Nations community and are related to others who come from such communities, the majority of which are found in the northern regions of Manitoba. This article describes a class unit on relations that sought to find out which Aboriginal communities fellow students most closely associated with. The class came up with the idea of surveying the entire school to collect the necessary data. The unit involved creating an arrow diagram, data mining, an all-school survey, and graphing the results using Gephi, an open-source graph visualization software. Guiding questions and possible adaptations are also discussed. (ERIC)

Classification: M60 K30 U70

Keywords: modeling; graph theory; activities; use of technology

<http://www.nctm.org/Publications/Mathematics-Teacher/2015/Vol109/Issue4/Using-Graph-Theory-to-Understand-First-Nations-Connections/>