

Native Physics Teaching materials (work in progress!)

[Wave physics from passive to active media](#)

[Native American concepts of homeostasis](#)

[More about systems science](#)

[Native american concepts for modulus of rupture](#)

[Materials science in Native American tradition publication](#)

[Materials science in Native American tradition lecture](#)

Some recommended reading on Native American knowledge systems

Geniusz, Wendy Makoons. *Our knowledge is not primitive : decolonizing botanical Anishinaabe teachings*. Geniusz (Cree and Métis) contrasts the way in which the Anishinaabe botanical knowledge is presented in the academic contexts, with how it is communicated in Anishinaabe culture. She offers a dialogue between the two worlds, and a path toward conducting more culturally meaningful research.

Fiola, Chantal. *Rekindling the Sacred Fire: Métis Ancestry and Anishinaabe Spirituality*. Winnipeg: University of Manitoba Press, 2015. Many of our students puzzle over how to think about their identity if they have “mixed” ancestry. Based on eighteen interviews with participants who self-identify as Métis, Fiola (who is Métis Anishinaabe-Kwe) shows the complexity of the processes the participants underwent in order to reclaim identities that honor all their ancestors, whether Anishinaabe, European, or Euro-Canadian.

Bell, Nicole. [Teaching by the Medicine Wheel: An Anishinaabe framework for Indigenous education](#). EdCan Network, June 9, 2014. Medicine Wheel pedagogy in practice through the Anishinaabe Bimaadiziwin Cultural Healing and Learning Program, an Anishinaabe culture-based school.

Belcourt, Christi. *Beadwork: First Peoples' Beading History and Techniques*. Ningwakwe Learning Press 2011. Not only does Belcourt create spectacular beadwork, but she is also a terrific writer. This book explores the history and contemporary production of Native beads, the cultural and spiritual significance of beadwork, and even various techniques if you want to try it yourself.