Judy Thompson (Edōsdi) April 2015

Rubric for the Evaluation of Indigenous Knowledge Curricula

This rubric was developed to be used to evaluate Indigenous Knowledge curricula, but can also be used as a guide to bring Indigenous Knowledge and wisdom into science curricula.

I have listed six criteria for this rubric, but there is room to add more criteria that can answer questions, such as:

- -can the curriculum be adapted for different Indigenous groups, different age groups, etc. (flexibility of the curriculum);
- -does the curriculum support cross-curricular or interdisciplinary activities;
- -does the curriculum recognize different learning styles;
- -is there appropriate in-servicing and orientation for all educators, community members, school board members, administrators, etc. involved with the curriculum;
- -is oral tradition identified as being crucial to Indigenous cultures; are the worldviews of Indigenous peoples articulated;
- -are Indigenous peoples' values and beliefs part of the curriculum (e.g. respect for selves, family, community, plants, animals, the land).

Many of these criteria can be added to the rubric, while others could be part of a checklist. By articulating some of the principles that need to be part of culturally relevant curriculum, it is hoped that this rubric will assist Indigenous and non-Indigenous educators in the critical analysis of Indigenous Knowledge curricula, as well as ways of bringing Indigenous knowledge and wisdom into science curricula.

	Gradations of Quality				
Criteria	4	3	2	1	
Indigenous Voice	Cultural experts are a significant and critical part of unit implementation. Elders and community members are involved at all stages of the curriculum development process and an Indigenous person is directly involved in the writing of the curriculum.	Cultural experts are involved. Elders and community members have been involved in many stages of the curriculum development process.	Cultural experts have been involved, but their role is not clear.	Involvement of cultural experts not mentioned.	
Indigenous Languages	Indigenous languages are recognized as being an integral part of Indigenous ways of knowing and worldview. The language plays a large part in the lessons and activities.	Indigenous languages are recognized as being an integral part of Indigenous ways of knowing and worldview. While the language does not play a large part in the lessons, the importance of learning the language from Elders and other fluent speakers is stressed.	No mention of the importance of Indigenous languages toIndigenous ways of knowing and worldview but there are Indigenous words used here and there throughout the curriculum.	Indigenous languages are not part of the curriculum and there is no mention of their importance to Indigenous ways of knowing and worldview.	
Diversity amongst Indigenous Peoples	Focus of curriculum is on one particular Indigenous group. The curriculum is flexible enough so that it can be adapted to other Indigenous groups.	Focus of curriculum is on one particular Indigenous group. There is not much flexibility in the lessons so that they cannot be adapted to other Indigenous groups.	Curriculum is very general and is not focused on any particular Indigenous group. However, it does make reference to the diversity amongst Indigenous groups.	Curriculum is very general and is not focused on any particular Indigenous group. Does not make reference to the diversity amongst Indigenous groups.	

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Protocol	It is recognized that when working with specific Indigenous communities and cultural experts that there are protocols to be followed. These are explicitly stated.	It is recognized that when working with specific Indigenous communities and cultural experts that there are protocols to be followed. These are not stated, but are directed to individuals and/or organizations (e.g. hereditary chiefs, band	The importance of following protocol is not highlighted, but individuals and/or organizations within the community are listed as contacts for general information.	There is no mention of the importance of following protocol.
		council members, educators, etc.) in order to find out the proper protocol to be followed.		
Relationship with the Land	States the importance of the land, plants and animals to Indigenous peoples. Lessons either take place out of the classroom on the land (e.g. at fish camps, seaweed camps, etc.) or in the classroom. Cultural experts are integral to the lessons.	States the importance of the land, plants and animals to Indigenous peoples. While some lessons take place out of the classroom on the land, many of the lessons take place in the classroom. Cultural experts are often involved.	Does not state the importance of the land, plants and animals to Indigenous peoples. Most of the lessons take place in the classroom but cultural experts are brought in once in a while.	Does not state the importance of the land, plants and animals to Indigenous peoples. Lessons take place inside a classroom without the involvement of cultural experts.
Ways of learning, ways of teaching	Traditional ways of learning and teaching are outlined. Activities are numerous and varied and are student-centred. They often take place on the land with Elders (observation, practice, participation, active involvement, etc.). Learning and evaluation ideally take place at the same time: is formative.	Traditional ways of learning and teaching are mentioned. Several activities take place, such as videos, guest speakers, field trips, guided labs, non-directed labs. Lectures are limited and teacher acts as a facilitator. Evaluation is a balance of formative and summative.	Traditional ways of learning and teaching are not mentioned. Some activities, such as videos or guided labs. Evaluation is a balance of formative and summative.	Traditional ways of learning and teaching are not mentioned. Activities are teacher-centred (lecture oriented). Evaluation is summative.

Adapted from:

Appendix F, pp. 136-140.

Thompson, J.C. (Edōsdi), (2004). *Gitga'at Plant Project: The Intergenerational Transmission of Traditional Plant Knowledge Using School Science Curricula*. (Unpublished Master's Thesis). University of Victoria, Victoria, BC. https://dspace.library.uvic.ca/bitstream/handle/1828/702/thompson 2004.pdf?sequence=1&isAllowed=y

What is a rubric?

A rubric is a document that describes varying levels of quality from excellent to poor.

It includes a list of criteria that is essential for the project or assignment (or in this case, Indigenous curricula) and gradations of quality that describe the criteria.

(Adapted from "Using Rubrics to Promote Thinking and Learning", *Educational Leadership*, Feb. 2000; and "Teacher Guide to Rekindling Traditions: Cross-cultural Science & Technology Units", http://www.usask.ca/education/ccstu/teacher.html).