INTRODUCTION

Framework for Designing Indigenous Science Resources

	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.	

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 (Unpublished Master's Thesis).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.

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