



Assessment Strategies & Options

Arctic alive! lessons are listed below. In conjunction with each lesson, there is a description of the assessment method(s) associated with that particular lesson. Each lesson has an assessment listed, however, they are not all intended to be graded. Some assessments are simply check-points along the way to see if there is information or skill that need to be addressed.

It is up to the individual teacher to decide which lessons and methods will be used for grading purposes. There are four possible components of the total assessment:

- 1) Student Science Journal (can grade some or all of the worksheets) This section includes the pre-assessment
- 2) Policy Debate Activity
- 3) Written post-assessment
- 4) Final Assessment Activity (Optional)

Lesson and What will be assessed?	Assessed by whom?	Type of Assessment Options
Student Science Journal (See rubric for grading criteria)		
➤ Arctic alive! Mission Written Pre-assessment and discussion	Student, Self-Reflection Teacher Pre-assessment ARCUS	Constructed Response Communication
➤ Earth System Science Participation in Activity and/or Written Reflection	Teacher	Observation/Performance Communication Constructed Response
➤ Climate Change	Teacher	Constructed Response Communication
➤ Sea Ice Research	Teacher	Constructed Response Communication
➤ Albedo Research Audio Conference Scientific Lab Report	Teacher	Constructed Response Communication
➤ Ice Core Research Audio Conference Scientific Lab Report	Teacher	Constructed Response Communication
➤ Local Knowledge Audio Conference	Self, Peer and/or teacher	Constructed Response Communication

Note-taking		
➤ Data Analysis Audio Conference Continue Lab Reports	Teacher	Constructed Response Communication
➤ Local & Global Audio Conference Impacts & Interventions	Teacher	Communication
➤ Geoscience Career Exploration	Self, Peer and/or Teacher	Constructed Response
Policy Debate Activity	Teacher	Performance Communication
Arctic alive! Mission Written Post-assessment	Student, Self-Reflection Teacher ARCUS	Constructed Response
Final Assessment (Optional) Activity	Self, Peer, and/or Teacher	Performance