

## Appendix B: HS Student Worksheet L2-B

### Claim, Evidence, Reasoning Statement

**Claim:** Climate change will negatively impact the ecosystem of Isle Royale.

**Scientific principles:**

- Lack of genetic diversity can be a limiting factor for a population.
- An island boundary can be a limiting factor for a population.
- Climate change can affect the boundaries of an island ecosystem.
- In some ecosystems, changes in the population of one species can have a trophic cascade effect on the community.

**Evidence:** (List data and facts about climate change and Isle Royale populations and ecosystem.)

**Reasoning:** Use your evidence AND the scientific principles above to explain why your claim is correct.

### Claim, Evidence, Reasoning Statement

<b>Claim:</b> Climate change will negatively impact the ecosystem of Isle Royale.	
<b>Scientific principles:</b> <ul style="list-style-type: none"><li>• Lack of genetic diversity can be a limiting factor for a population.</li><li>• An island boundary can be a limiting factor for a population.</li><li>• Climate change can affect the boundaries of an island ecosystem.</li><li>• In some ecosystems, changes in the population of one species can have a trophic cascade effect on the community.</li></ul>	
<b>Evidence:</b>	<b>Reasoning:</b>