

Gidakiimanaaniwigamig
(Our Earth Lodge)

STEM Camp:
Investigating climate change and its
effect on Ojibwe lifeways



Program Objectives

- Increase the level of climate literacy and engagement of the United States public...*by developing a unique climate literacy outreach that integrates TEK with STEM and involves them in community based climate service learning.*
- Create a diverse, highly skilled, and motivated future workforce in climate-related sciences...*by engaging Native American student in applying NASA climate research through culturally relevant community outreach.*
- Advance the understanding of how to effectively teach global climate change concepts...*through the integration of place-based TEK and application of scientific climate research and STEM.*

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Each three-day camp incorporates Native American Learning Styles by providing:

- **Cultural context**
- **Relevance**
- **Holistic approach**
- **Community involvement**
- **Communal learning**
- **Problem-based, real world learning**

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- **Cultural context**

Students are split into color groups

miskwa (red)/gizhaate(hot)

ozhaawashkwaa (green)/waawaate (northern lights)

ozhaawaa (yellow)/aabawaa (warm and mild)

waabishkaa (white)/gisinaa (cold)

ozhaawashkwaa (blue)/gimiwan (rainy)

makadewaa (black)/baate (dry)



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- **Relevance**

- Place-based
- “What is happening in our back yard?”



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- **Holistic approach**



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- **Community involvement**
 - Parent/Community Presentations
 - Tribal Natural Resource Professionals



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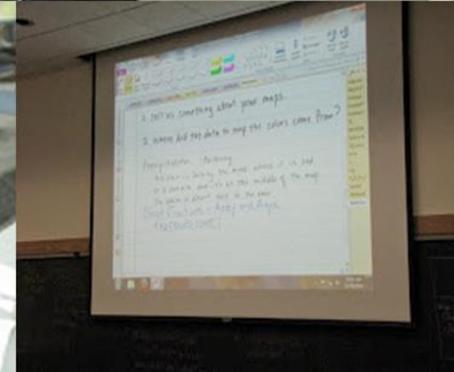
- **Communal learning**

- Multi-generational
- College students as mentors
- Hands-on teacher involvement



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- **Problem-based, real world learning**
 - Hands-on
 - Place-based
 - Latest research



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