9reen The Strain Strain

Deck Organizer









Spark Deck 1

Stack all Spark-1 cards here

Stack all Spark-2 cards here

Spark Deck 2

Hypothesis Deck 1

Stack all Hypothesis-1 cards here

Hypothesis Deck 2

Stack all Hypothesis-2 cards here

During step 1, distribute one *Spark-1* card to each participant

During step 1, distribute one *Spark-2* card to each participant

During step 2, distribute one *Hypothesis-1* card to each participant in the 'A' group During step 2, distribute one *Hypothesis-2* card to each participant in the 'B' group

explore

Explore Deck 1

Place half the total quantity of explore-4, explore-5, and explore-6 cards here.

Next, place all explore-1 cards here.

Then shuffle this deck of cards.

During step 3, distribute one random card from this deck to each participant in the 'A' group.



Explore Deck 2

Place half the total quantity of explore-4, explore-5, and explore-6 cards here.

Next, place all explore-2 cards here.

Then shuffle this deck of cards.

During step 3, distribute one random card from this deck to each participant in the 'B' group.



Explore Deck 3

Stack all explore-3 cards here

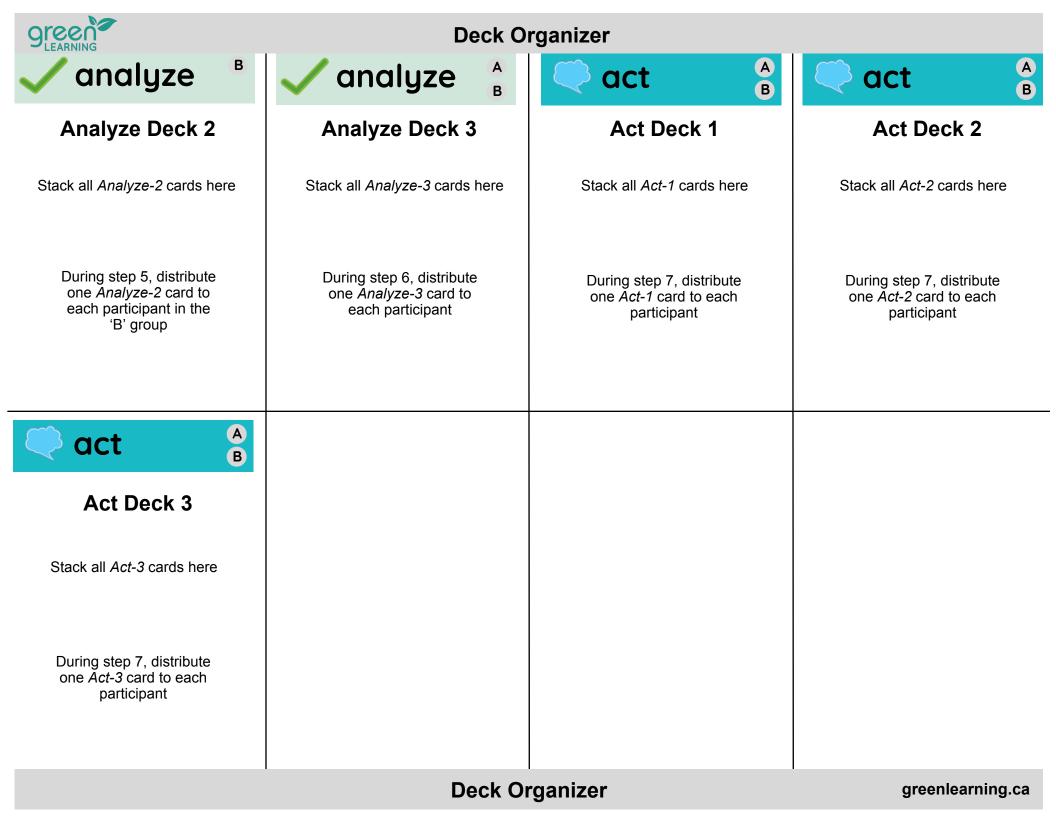
During step 4, distribute one explore-3 card to each participant



Analyze Deck 1

Stack all Analyze-1 cards here

During step 5, distribute one *Analyze-1* card to each participant in the 'A' group







Video

Reaching Remote Inuit Tribes in the Arctic Documentary - Sebastian Tirtirau

Please watch from minute

17:20 to 20:23 setting out to fish
21:37 to 28:20 sea ice fishing, hunting, and igloo building





https://bit.ly/3uo8tAn

As an entire group:

1 How important are the sea ice and snow to the Inuit Peoples hunting and fishing traditions?

spark-1







Data

Household greenhouse gas emissions per capita, by province and territory, 2016
Statistics Canada



https://bit.ly/2ZCWroT

As an entire group:

1 What is this data showing? Reflect how carbon intensive your province or territory is compared to Nunavut. Based on this graph, what can you deduce about the lifestyles or livelihoods of people in those provinces/territories?

spark-2



В

hypothesize

Theme: Wildlife and Fish

With your group, use the question prompts below to develop a hypothesis:

- 1 How is climate change, sea ice conditions, and the movement, population, and/or distribution of various animals and fish related to hunting and fishing on the ice.
- How might the change in one animal/fish population affect the population of other animals and fish?
- How can changes in populations/ distribution of animals and fish affect the livelihoods of the Inuit?
- Consider how carbon intensive the Inuit livelihoods are compared to the Canadian average. How would you describe the northern contribution towards climate change versus the effects of climate change in the Arctic? Is this fair? Why or why not?

Use your **Inquiry Card** to record your own hypothesis based on the discussion with your group.

hypothesis-1



hypothesize ^B

Theme: Transportation and Culture

With your group, use the question prompts below to develop a hypothesis:

- Hypothesize how climate change, sea ice conditions, and the movement on the sea ice by Inuit hunters/fishers are related. Consider ease of accessing sites, safety, visiting other communities, and culture. Also consider what alternatives to moving on solid sea ice there are to access hunting/fishing sites.
- How does changing ice conditions affect the livelihoods of the Inuit? How will impact them if these conditions continue to worsen?
- Consider how carbon intensive the Inuit livelihoods are compared to the Canadian average. How would you describe the northern contribution towards climate change versus the effects of climate change in the Arctic? Is this fair? Why or why not?

Use your **Inquiry Card** to record your own hypothesis based on the discussion with your group.

hypothesis-2





Read

The right to food security in a changing Arctic: the Nunavut Food Security Coalition and the Feeding My Family Campaign

Mary Robinson Foundation - Climate Justice

Please read page 3, box 1 "Leesee's Story"





https://bit.ly/37AxYVC

Explore this resource on your own:

1 From the story, how does sea ice make food more inaccessible? What alternatives are there for affordable and nutritious food?

Use your **Inquiry Card** to record your own observations based on this resource.

explore-1



explore

Read

The Arctic Ocean and the Sea Ice Is Our Nuna
UN Chronical





https://bit.ly/3pJIGiP

Explore this resource on your own:

What role does the sea ice play in the movement and transportation of the Inuit? Why is this transportation important?

Use your **Inquiry Card** to record your own observations based on this resource.





explore

A B

Data

Sea Ice Spatial Comparison Tool National Snow & Ice Data Center





https://bit.ly/3pKEP4K

Explore this resource on your own:

1 Choose between two dates and compare how the sea ice extent changes. For reference, try to use a day in the winter time, and use the same day for different years to best compare the extent.

Use your **Inquiry Card** to record your own observations based on this resource.

explore-4



<u>explore</u>



Read

New report illustrates the domino effect of Arctic sea-ice change Nunatsiag News



https://bit.ly/3keifAz



Explore this resource on your own:

What animals and fish are affected by sea ice melt? How might this affect the hunters and fishers? How does this affect the balance of the ecosystem?

Use your **Inquiry Card** to record your own observations based on this resource.

explore-5







Data

Monitoring Household Food Insecurity Over Time Health Canada





https://bit.ly/3pGTVZi

Explore this resource on your own:

Use the archived data from Health Canada and examine food insecurity trends. What province or territory has the highest percentage of food insecure households? Is the situation improving or worsening between 2005 and 2015? Make predictions for the future based on trends.

Use your Inquiry Card to record your own observations based on this resource.

explore-6

Consider

United Nations: Department of **Economic and Social Affairs**

"Climate change poses threats and dangers

worldwide, even though indigenous peoples

In fact, indigenous peoples are vital to, and

active in, the many ecosystems that inhabit their lands and territories and may therefore

https://bit.ly/3sgnen6

Reflect on the lessons you've learned

with this statement; what kinds of words

the affects of climate change on the Inuit

in the context of their livelihoods, carbon intensity, and history of colonization?

or concepts would you use to describe

help enhance the resilience of these

contribute the least to greenhouse emissions.

to the survival of indigenous communities







Share with a Partner

With a partner:

For a few moments, one partner will share first their observations with the other. The educator will signal when to switch places.

Switch places and repeat until the instructor signals the end.

Repeat this process for as many times as instructed with new pairs.

Use your Inquiry Card to record new observations made as shared from your partner.

explore-3



analyze

Discuss

With your group:

- Share the observations made as a collective
- What is the data and stories telling you in relation to your hypothesis about wildlife and fish?
- Does the data and stories confirm your hypothesis?

If so, describe.

What data would you need to explore and drive your conclusions further?

Reflect again on how climate change is affecting the livelihoods in the North compared to how much carbon per capita Nunavut emits. What does this tell vou?

Use your **Inquiry Card** to draw conclusions based on the observations and hypothesis you've made and the group discussion.



analyze

Discuss

With your group:

- Share the observations made as a collective.
- What is the data and stories telling you in relation to your hypothesis about transportation and culture?
- Does the data and stories confirm your hypothesis?

If so, describe.

What data would you need to explore and drive your conclusions further?

Reflect again on how climate change is affecting the livelihoods in the North compared to how much carbon per capita Nunavut emits. What does this tell you?

Use your Inquiry Card to draw conclusions based on the observations and hypothesis you've made and the group discussion.





ecosystems."

As an entire group:







Watch

Why climate change in the Arctic affects us all **Global News**

Please watch from minute

2:35 to 5:46

Sheila Watt-Cloutier explaining what's at stake for Canada and beyond





https://bit.ly/37EAwBS

On your own:

Reflect on the resilience and outlook that she shares. How does her testimony compare with your conclusions?









Think

On your own:

- Consider your personal carbon emissions and how it might affect some communities more than others.
- How will you share the information you learned from this exercise with your community?
- What kind of policies and/or investments would you advocate for to address the gaps identified in this exercise?

Consider reading more and supporting these organizations:

Inuit Tapiriit Kanatami (ITK) Inuit Circumpolar Council (ICC) World Wildlife Foundation (WWF) Arctic Council Indigenous Climate Action





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inquiry card



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Record all your observations here: use additional sheets if necessary
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greenlearning.ca	



inquiry card 3 Analyze Record any conclusions or need for more data here:





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1	

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Analyze Record any conclusions or need for more data here:
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