**SNC1W Resource Collection**

**Title:** Environmental Threats - What are they? Who do they impact?

**Course Code:** SNC 1W

| **Topics**  Thinking Classroom Warm-Up - Ecological Hazards  Lesson - Human Impacts on Climate Change | **Timing**  Preparation: 15 min  Activity: 25 min  Lesson: 35 min |
| --- | --- |

**Curriculum Expectations:**

* **B1.2** assess the impacts of climate change on communities in Canada, including First Nations, Métis, and Inuit communities
* **B2.6** identify and use various indicators of climate change to describe the impacts of climate change on local and global ecosystems, and analyse how human activities contribute to climate change

**Introduction:**

* The focus of this learning day is to introduce students to factors that affect our environment and begin to understand the environmental/community impact these factors have

**Learning Goals:**

* Climate Change refers to long-term changes in temperature or weather patterns on Earth. This has been occurring through the process of Global Warming
* Human activity has been the driving force behind global warming, through the emission of fossil fuel and clearing of forests
* Climate Change has had a profound effect on various cycles that regulate our ecosystems, and these effects may have irreversible consequences
* Climate change impacts different communities in different ways and should be considered when looking for solutions

**Prior Knowledge:**

Students may need to review the following concepts:

* Climate Change, Global Warming, Greenhouse Gases, Greenhouse Effect, Carbon Dioxide

**Lesson Plan**

| **Description** | **Time** |
| --- | --- |
| Introduction | |
| Thinking classroom activity: ([Outline](https://docs.google.com/document/d/1foRZR3BPzEjUkUPG420giMflDraOGrygiHzDOuSVOuA/edit), [Printables](https://docs.google.com/document/d/1MyYrm_wlnni4kp7nWVx2yYrr-WPcRvqzSOouE0jvdk8/edit), [Questions](https://docs.google.com/document/d/1sICXj3DXIh5ZiUN5wwGuq8PQ2Qkle6We1ov2yEmijW0/edit)) (25 minutes)   * Set the stage: a land untouched with plentiful resources, water, air, land, regular and predictable seasons where no one goes without * Given a list of anthropogenic (human-caused) factors that negatively impact our environment in Canada, order them from worst impact to least impact based on prior knowledge and a brief description of each * Add more factors, group factors, try to find some common themes | 30 minutes |
| Content | |
| Lesson: [Human Impacts on Climate Change Presentation](https://docs.google.com/presentation/d/12EyyZWMwiX-ISvQoOcjNt4cQ_sSy5G9Z7GuScc4drBE/edit#slide=id.g35ed75ccf_015) (25 minutes + videos)   * Includes learning summary, many linked videos | 30 minutes |
| Consolidation | |
| * consolidation homework questions at the end of the lesson | 15 minutes |

| **Materials:**   * ~~Computers/Tablets~~ * ~~Laptop/LCD Projector~~ * ~~Handouts: Linked above in lesson plan~~ * Other: | **Transferable Skills**   * ~~Critical thinking and problem solving~~ * Innovation, creativity, and entrepreneurship * ~~Self-directed learning~~ * ~~Collaboration~~ * ~~Communication~~ * ~~Global citizenship and sustainability~~ * Digital literacy |
| --- | --- |
| **Instructional Strategies**   * ~~Brainstorming~~ * Think Pair Share * Demonstration * ~~Group Work~~ * ~~Independent Work~~ * ~~Questioning~~ * ~~Class Discussion~~ * Hands On Activity * ~~Other: Thinking Classroom~~ | **Assessment For/As/Of Learning**   * ~~Conversation~~ * ~~Observation~~ * ~~Homework Check~~ * Notebook Check * ~~Participation~~ * Peer Assessment * Self Assessment * Product * Other: |

**Assessment Resources:**

* See thinking classroom activity links in lesson plan: Thinking classroom activity: ([Outline](https://docs.google.com/document/d/1foRZR3BPzEjUkUPG420giMflDraOGrygiHzDOuSVOuA/edit), [Printables](https://docs.google.com/document/d/1MyYrm_wlnni4kp7nWVx2yYrr-WPcRvqzSOouE0jvdk8/edit), [Questions](https://docs.google.com/document/d/1sICXj3DXIh5ZiUN5wwGuq8PQ2Qkle6We1ov2yEmijW0/edit))
* See checkpoint and homework questions in lesson: [Human Impacts on Climate Change Presentation](https://docs.google.com/presentation/d/12EyyZWMwiX-ISvQoOcjNt4cQ_sSy5G9Z7GuScc4drBE/edit#slide=id.g35ed75ccf_015)

**Safety**

* No safety precautions

**Equity and Diversity Concerns:**

* None

**Teaching Suggestions/Hints**

* **Please read the instructions for the thinking classroom activity linked above before conducting the activity**

**Next Steps/Extensions**

* see Day 2 Lesson Plan