

# Earth Day

Cross-curricular - Week 2

**Theme:** Exploration - Change - Identity

**Learning Goal:** The purpose of this lesson is for you to explore climate change and the impacts it is having on our environment. You will also be choosing an activity that will give you an opportunity to address a climate issue that you are interested in exploring.



**Materials:**

- Pencil
- Paper
- Crayons, markers, coloured pencils/pens...
- Home recycling materials

Let's get started...

1. **Quick Write**  
(approximately 5-7 minutes)  
The quick write is to get you writing. Reflect and respond to the prompt in whatever way gets you writing. No response is incorrect.



Source: <https://www.lovetispic.com/image/252630/good-planets-are-hard-to-find-earth-day-quote>

**Choose ONE** of the following prompts to respond to in your writer's notebook or a notebook/piece of paper.

1. What does this quote bring to mind?
2. What do you see as one of the biggest challenges in fighting climate change?
3. If you had a planet-saving super power, what would it be and how would you use it?



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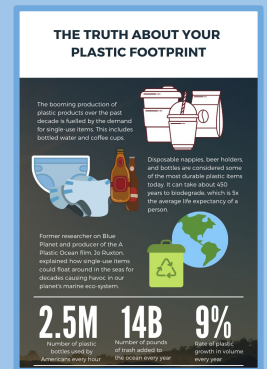
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## 3. Problem Solving (1 hour)

### OPTION #1 -

Create an awareness poster about a climate issue you are passionate about.

- What issue is your poster highlighting?
- Why is this an important issue?
- What images do you want to include on your poster? Consider their impact: Are they engaging? Do they address the issue you are presenting?
- Who is your audience? Who do you want to view this poster?



### OPTION #2-

Write a letter to a local politician presenting your thoughts on a climate issue that you feel needs to be changed.

- What climate issue matters most to you and why?
- Why should everyone care about this issue?
- What actions can you suggest to the politician?
- What could happen if your suggestions are ignored?



### OPTION #3 -

**Reduce, Recycle & Reuse.** Try building something from recycled items. Take something like a plastic bottle or cereal box and repurpose it to do another job.



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## 4. Math It Up Wrap Up: Climate Change Math (5 minutes)

1. Replacing one regular light bulb with a compact fluorescent bulb will save approximately 70 kilograms of carbon dioxide per year. If you replace 25 regular light bulbs, then how many kilograms of carbon dioxide will you save per year?
2. Deforestation is the logging or burning of trees in forested areas. Each year about 13 million hectares of the world's forests are lost due to deforestation. How many hectares will be lost in 9 years?
3. Glacier National Park had 150 glaciers more than a century ago. Today there are 35. What is the percent decrease in glaciers?

Answers: 1. 1750 kg 2. 117 million hectares 3. 76.7 % decrease

Source: [https://www.mathgoodies.com/sites/default/files/webquests\\_files/math\\_and\\_climate.pdf](https://www.mathgoodies.com/sites/default/files/webquests_files/math_and_climate.pdf)

