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## My NASA Data - Mini Lesson/Activity

### NASA's Earth Minute: Greenland Ice



#### Student Directions

Watch the video [NASA's Earth Minute: Greenland Ice](#) and answer following questions.

[Video: NASA's Earth Minute: Greenland Ice](#)

Video

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NASA's Earth Minute: Greenland Ice | <https://www.youtube.com/watch?v=yLm7PSsvW8g> | Source: NASA Climate Change

### **Steps:**

1. Check with your instructor on how to submit your answers.
2. Explain why coal miners brought canaries into coal mines.
3. Explain how the Greenland ice sheet is like a canary in a coal mine.
4. What is the only place on Earth with more land ice than Greenland?
5. If ALL the ice from the Greenland ice sheet melted, what would happen to sea level?
6. How long might it take for ALL the ice from the Greenland ice sheet to melt?
7. How much water is the melting Greenland ice adding to the ocean each year?
8. What is a gigaton?
9. Describe what other environmental changes could be a result of the melting ice.

Located in the Arctic near the North Pole, Greenland is covered by a massive ice sheet three times the size of Texas and a mile deep on average. Greenland is warming almost twice as fast as Antarctica, which is causing the ice to melt and raise global sea levels. NASA is monitoring Greenland's ice sheet from high up in space down to the ocean floor to provide data for scientists studying the global impact of all its melting ice.

### **Visualization Tool**

- [About the Earth System Data Explorer](#)