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**WebQuest**

**Explore the NASA climate kids website at** [**http://climatekids.nasa.gov/menu/big-questions/**](http://climatekids.nasa.gov/menu/big-questions/) **Use the website to answer the questions below.**

**WHAT IS “GLOBAL CLIMATE CHANGE”?**

1. What is **climate change**?
2. How is climate **different** than weather?

**HOW DO WE KNOW THE CLIMATE IS CHANGING?**

1. What is **causing** climate change?
2. Why are rising sea levels a problem?
3. How does climate change affect other species

**WHAT IS THE BIG DEAL WITH CARBON?**

1. What are **fossil fuels**?
2. Are happens when we burn fossil fuels? Where does the carbon go?
3. Is CO2 **always** badfor the earth? **Explain**.
4. What is a **greenhouse**?
5. How is the earth **similar** to a greenhouse?
6. Do clouds make the earth **warmer** or **colder**? **Explain**.

**CLIMATE TIME MACHINE**

1. How much Arctic sea ice has melted just since satellites started observing around 30 years ago?
2. What parts of the world will be under water as sea level rises, inch by inch, foot by foot?
3. How much has the greenhouse gas carbon dioxide increased in the air just in the last few years?
4. How much has temperature risen around the world in just a little over 100 years?

**WHAT IS HAPPENING IN THE OCEANS?**

1. How does the **ocean** affect the climate?
2. Does the **salt** in the ocean do anything? If so, **what** does it do?

**WHAT CAN WE DO TO HELP?**

1. How can we help **nature**?
2. How can we reduce our **carbon footprint**?
3. How can I reduce my **trash pile**?



Explore this website. Look at the *air, ocean, freshwater, carbon’s travels, energy, plants & animals, and technology* pages. Read an article that looks interesting. Write down five new facts that you learned. Earn **1** bonus point for each article you summarize.