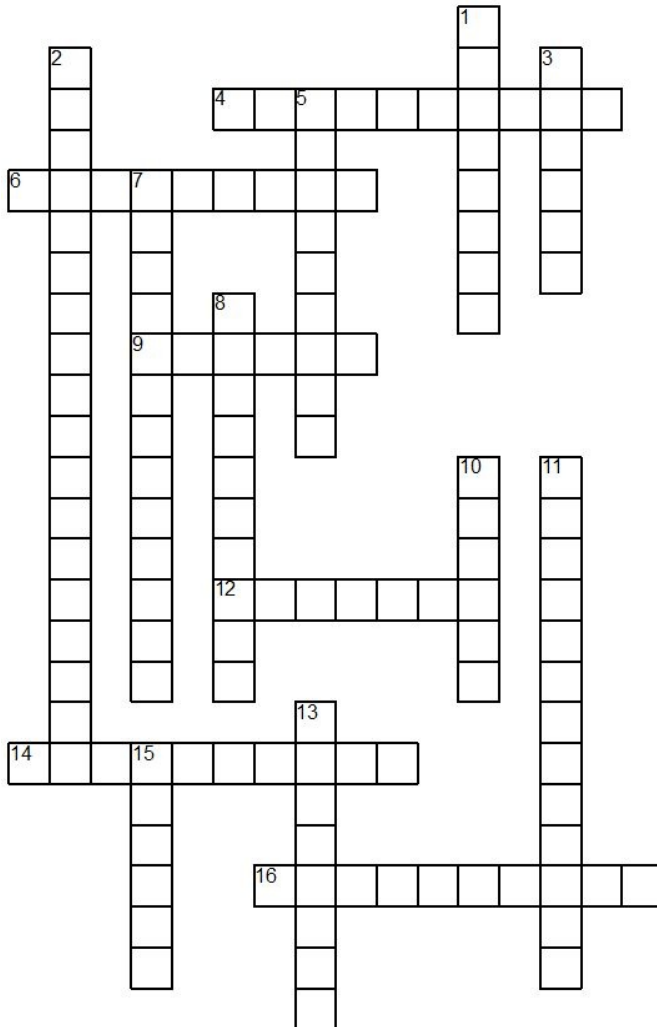


**A. Crossword Puzzle**

① Read the on-line Earth & Space notes for this chapter (i.e. see "youngs-wiki") and complete the crossword.



We know that Earth's climate is changing. Global temperatures are (14a), sea levels are (15d), severe weather events are happening more often, and ecosystems are (1d). We also know that climate change today is caused by human actions.

(11d) is reducing Earth's ice cover. (9a) temperatures are rising at double the rate of temperatures elsewhere. Both Greenland's ice sheets and Arctic sea ice are melting (10d) than scientists had predicted.

Earth's oceans are rising due to (7d). Even small increases in sea level can result in damaging (3d) and loss of low-lying land. Low-lying coastal area are home to millions of people around the world, including many of the world's largest cities such as (6a), Victoria, and Halifax.

Another problem is (2d) - the oceans are becoming more acidic. This is a problem for corals, (5d), and other marine dwellers since they use calcium carbonate and similar compounds to build their shells and skeletons. These materials can (13d) if the water becomes too acidic. Many marine species may suffer, and ocean (16a) may begin to collapse.

Changes in temperature and precipitation due to climate change will also affect (8d). Some plants and animals are likely to move toward the poles as their habitats become (4a). As a result, ecosystems around the world will change and some species will become (12a)

**B. Wrap-Up Notes**

- ① Take a blank lined page and at the top of the page, in the middle, write the title for this section.
- ② Leave a blank line and then, on the left side, write the heading "WRAP UP NOTES".
- ③ Turn to the last page of the notes (P.369) and add the wrap up notes below this heading. Be sure to write neatly!

**C. Questions**

- ① Leave a blank line after the wrap up notes and then, on the left side again, write the heading "QUESTIONS".
- ② Answer the questions below under this heading. Be sure to use complete sentences and to write neatly!
- ③ Attach your answers to this sheet when you are finished.

1. What are some of the consequences (3) associated with melting glaciers and ice sheets?
2. What issues (3) does permafrost thawing create?
3. What are some of the consequences (3) of rising sea levels?
4. How is climate change affecting ecosystems?
5. What is a "citizen scientist?"