

EXTREME ENVIRONMENTS

Get Organized Before You Start

- *Take your notes: Copy and paste this page into Google Docs and fill in the answers.*
- *Start thinking about what kind of 3-dimensional project you will do for the last lesson. A diorama? A poster? Or...?*

LESSON ONE: What do people need in order to stay alive?

- A. Is the source reliable? Go to
https://www.openschool.bc.ca/ocr/science/sc6ee/teacher/Gr6Sc_EE_ADST_Module.pdf
Read p. 1-2.
Who published this unit?
When was it published?
Does it match the BC Science curriculum?
How do you know?
- B. Go do some research.
Read p. 12 -13.
- C. Make a list showing 6 requirements for survival. Add details for more credit.

LESSON TWO: What is an extreme environment?

- A. Is the source reliable? Go to
https://www.openschool.bc.ca/ocr/science/sc6ee/teacher/Gr6Sc_EE_ADST_Module.pdf
Read p. 1-2. Yes. You already used this source of information.
- B. Go do some research.
Read p. 14
- C. Complete this sentence.
An extreme environment is any place that...
- D. Is the source reliable? Go to
http://mrsdavieswebsite.weebly.com/uploads/5/3/8/9/53891741/science_probe_-_exploring_extreme_environments.pdf
Yes. It is from a Science textbook called Science Probe which is published by Nelson, a reputable educational publisher.
- E. Go do some research.
Read p. 6. (Note: all page numbers from this source are the PDF page numbers.)

- F. Complete this sentence.
An extreme environment is a place where...
- G. Look at the map.
Use your background knowledge of continents and oceans. Use your knowledge of these words: north, south, east, west.
What do you notice about the extreme environments on the map?

LESSON THREE: What are some extreme environments?

- A. Is the source reliable?
Check 'About Us' <https://www.mentalfloss.com/about-us>
Yes. Facebook fans and Youtube videos do not count. But it has won three Webby awards, which are awards for... [Do some research to find out the answer.]
- B. Go do some research.
Check <https://www.mentalfloss.com/article/89955/7-worlds-most-extreme-landscapes>
1. Hottest place
 - a. What is it called?
 - b. Where is it?
 - c. How extreme did it get?
 2. Coldest place
 - a. What is it called?
 - b. Where is it?
 - c. How extreme did it get?
 - d. When did it happen?
 3. Driest place
 - a. What is it called?
 - b. Where is it?
 - c. How extreme does it get?
 - d. When did it first get recognized?
 - e. Why is it so dry? (4 reasons)
 4. Wettest place
 - a. What is it called?
 - b. Where is it?
 - c. How extreme is it?
 - d. How many times more rainy is it than in Seattle? (Hint: you need to divide.)
 5. Flattest place
 - a. What is it called?
 - b. Where is it?
 - c. How extreme is it?
 - d. How was it made?
 - e. When was it made?

- f. What is it made of?
- C. Is the source reliable? Go to
http://mrsdavieswebsite.weebly.com/uploads/5/3/8/9/53891741/science_probe_-_exploring_extreme_environments.pdf
Yes. It is from a Science textbook called Science Probe which is published by Nelson, a reputable educational publisher.
- D. Do some research. Find out at least 3 important facts about each of these extreme environments.
1. Arctic: p. 7
 2. Antarctic: p. 7
 3. Deserts: p. 8
 4. Oceans: p. 8
 5. Volcanoes: p. 9
 6. Outer space: p. 10

LESSON FOUR: Why do people go to extreme environments?

- A. Is the source reliable? Go to
http://mrsdavieswebsite.weebly.com/uploads/5/3/8/9/53891741/science_probe_-_exploring_extreme_environments.pdf
Yes. It is from a Science textbook called Science Probe which is published by Nelson, a reputable educational publisher
- B. Do some research. Read p. 11-14.
Find out 5 major reasons to explore extreme environments.
Provide evidence for your answers.

LESSON FIVE: How have indigenous people survived in the Arctic?

- A. Is the source reliable? Go to
http://mrsdavieswebsite.weebly.com/uploads/5/3/8/9/53891741/science_probe_-_exploring_extreme_environments.pdf
Yes. It is from a Science textbook called Science Probe which is published by Nelson, a reputable educational publisher
- B. Do some research. Read p. 15-16.
Find 6 technological inventions that have helped the Inuit survive in the Arctic.
Provide details (description, drawing, benefit) that prove that the invention is helpful.

LESSON SIX: Can you test substances that insulate against cold?

- A. Is the source reliable? Go to https://www.teachengineering.org/activities/view/the_best_insulator
Yes. The University of Colorado Boulder and Oregon State University publish this TeachEngineering site.
- B. Watch the video at the top of the page.
- C. Do the experiment yourself using supplies you have at home.

LESSON SEVEN: How do people survive in another extreme environment?

- A. Choose an extreme environment.
- B. Do some research.
 - 1. Find 3 reputable sources of information.
 - 2. Make a bibliography of your sources.
- C. Find answers to these questions.
 - 1. Where is this place?
 - 2. What makes this environment extreme?
 - 3. What are challenges people face in visiting this place or living in this place?
 - 4. Why do people choose to visit this place or live in this place?
 - 5. What do people do to survive in this place? What technologies assist them?
 - 6. How does exploration of this place benefit human life and the community of scientists in the world?