

United States and Canada: Water Systems

Turn to page 67 and copy down the vocab. After you copy it down draw a quick sketch to illustrate the term.

	DEFINITION	IMAGE
ECOSYSTEM		
FOOD CHAIN		
FOOD WEB		
FRESHWATER		
WATERSHED		

The answers to the following questions can be found in chapter 4. Go to the page and section where the question directs you. **PLEASE ANSWER IN COMPLETE SENTENCES.**

1. (Page 65, Sect. 4.1) Describe how the Great Lakes were formed.
2. (Page 66, Sect. 4.2) Which of the Great Lakes is located entirely in the United States?
3. (Page 66, Sect. 4.2) Why are the Great Lakes sometimes called the “sweetwater seas.”
4. (Page 66, Sect. 4.2) How does pollution affect the food chain or food web of an ecosystem?

5. (Page 68, Sect. 4.3) How did the Cuyahoga River catch on fire? What happens when the rivers that flow into the Great Lakes are polluted? How are the Great Lakes affected?
6. (Page 68, Sect. 4.3) How are Algae mats formed? What are four consequences of Algae mats?
7. (Page 70, Sect. 4.4) What is point-source pollution? Give me an example of point-source pollution?
8. (Page 71, Sect. 4.4) What is non-point-source pollution? What is runoff? How does runoff contribute to non-point-source pollution?
9. (Page 71, Look at the image on the bottom of the page) What six common places that produce pollution that could eventually end up in our rivers, lakes, and oceans?
10. (Page 74, Sect. 4.7) How much of the world's water is SALT WATER? How much of our FRESH WATER is currently frozen?
11. (Page 74, Sect. 4.7) What are four places people get fresh water from?
12. (Page 74, Sect. 4.7) About how many people worldwide do not have a steady supply of drinking water? About how many people die a year from diseases related to unsafe drinking water?

13. (Page 75, Sect. 4.7) How might climate change affect our water supplies?

14. (Page 75, Image at the bottom) Which continent currently uses the most water?

15. (Page 76 & 77, Look at the map) By looking at the three maps what can be conclude about our freshwater supply throughout the world going into the future? How can people best use and manage the world's freshwater resources?

Flint Water Crisis Questions

<http://www.nbcnews.com/nightly-news/video/lead-levels-in-flint--michigan--water-have-residents-avoiding-tap-541315651644>

1. Describe what has happened in Flint, Michigan over the past year.

2. What can we learn from the water safety crisis in Flint, Michigan?

The "Rainmaker"

<https://www.youtube.com/watch?v=TQD1w4EVDbY>

1. Many people are already trying to tackle the issue of water shortage. One of those guys is the founder of 5 hour energy, Manoj Bhargav. How does his invention the "Rainmaker" work?

2. Many people think in the future water will become as valuable a commodity as oil. After this lesson what are your thoughts on how we currently treat our water resources here in America? And 100 years from now do you think much will change with how we treat, use, and find water? Explain why or why not?