NATIONAL GLOBAL ISSUES

Program Overview





GLOBAL ISSUES

Bringing world issues into focus for all students

The Global Issues series consists of books at three reading levels covering the most important geographic and environmental issues of our time.

- Informational text for social studies and language arts
- Reinforces middle school writing modes:
 » Explanatory, Argumentative, Narrative
- Interactive eBooks for tablets and smartphones
- National Geographic Magazine look and feel



Supports

COMMON CORE STANDARDS



Three reading levels (on level, below level, and above level) to reach every student.

GLOBAL ISSUES Grade 5 Reading Level ESUUR GLOBAL ISSUES RESOUR



990L Grades 6–7 Reading Level

> 1060L Grade 8 Reading Level

Engage your students with issues that touch their lives



The student books feature dramatic photography, engaging writing, and a distinctive visual design to interest students in issues of global importance.

Introducing the Issue generates interest, explains an issue's global importance, and provides essential information.

An **Essential Question** gives students a focus and purpose for studying the issue.

HOW IS POLLUTION THREATENING WATER QUALITY AROUND THE WORLD?

Since water covers two-thirds of Earth's surface, no one needs to worry about wasting it, right? Wrong! About 97 percent of the world's water is saline, or salty. That leaves only 3 percent for drinking and growing crops—and 2 percent of this freshwater is frozen in polar ice or trapped in underground rock layers called **aquifers**. Yet even freshwater isn't usable if it's polluted. If we want to preserve what l'ttle water we've got, we have to clean up our act.

WHERE WATER IS FOUND ON EARTH

Oceans 96.5%

Water Resources Student Edition, pp. 4–5

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Dramatic **photographs** in the tradition of National Geographic generate students' interest.

The **text** explains to students why the issue is so critical to the world and to their futures.

Graphics and **diagrams** communicate important information and appeal to visual learners. Each level has two case studies. Case Study One presents the issue in one area of the world. Case Study Two examines the same issue in a different region.



Water Resources Student Edition (on level), pp. 10-11

Spectacular **photographs** establish the geographical context and portray the visual dimension of an area. **Key vocabulary terms** appear in boldface type and are defined in context. All of the words appear in the **Visual Glossary** at the end of the book.



A MIGHTY RIVER

The Amazon is the second longest river in the world. It starts high in the Andes Mountains, flows across Peru and Brazil, and empties into the Atlantic Ocean.

The Amazon River **basin** consists of the whole area drained by the river. The basin is enormous-more than 2.7 million square miles. It is also one of Earth's most diverse ecosystems. An **ecosystem** is a community of living organisms and their natural environment.

The Amazon River basin is home to approximately 10 million people and more than 30,000 plant species and 1,300 kinds of birds. It is also the world's pharmacy. Many medicines come from rare plants that grow only in the Amazon basin. We rely on the Amazon's vast rain forest to pump oxygen into the atmosphere—and freshen the planet's air.

AMAZON GOLD RUSH

Yet for years, the Amazon has faced several threats. For example, did you know that you can mine rivers for gold? Deep in the Amazon rain forest, miners scoop dirt from the riverbed. Then they treat the dirt with **mercury**, a highly toxic element that attaches to tiny gold flakes in the mud and makes the gold easier to collect.

After using the mercury, some of the mining companies dump it into the Amazon. The poisonous elements in mercury do not dissolve in water. When mercury lows downstream, it leaves destruction in its path.



Fish are the first to die. Tons of dead fish have washed up onto the banks of the Amazon. Then the animals that eat these fish are poisoned. Finally, peoplewho drink polluted water or eat the poisoned fish and animals become sick. The mercu y attacks people's brains and nervous systems and can injure unborn children.

This once fertile bank along the Amazon has been devastated by gold mining.

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Text clearly explains what's involved in the issue.

GLOBAL ISSUES

Streamlined but comprehensive teacher components create a dynamic classroom



One Teacher's Guide for each set of three student books gives teachers the resources to blend whole-class instruction with small-group activities.

osing Guides

Blackline

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From National Geographic, April 2010	
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Each Teacher's Guide provides:

- Background information on the issue
- Pacing for 45-minute and 90-minute class periods
- Suggestions for differentiating instruction for five types of learners
- Blackline masters and rubrics for activities
- Assessments including tests at three levels and additional projects to measure comprehension

e-dasslesson

3 levels of 3585

Introducing the ISSUE & WORLD HOT SPOTS

OBJECTIVE

T20

identify sources of water pollution and how some places around the world are

ESSENTIAL QUESTION

Introduce & Engage

Demonstrate Bring to class a clear pitcher, a clear glass, a mixing spoon, and small containers of the following items: cooking oil, dirt, red food dye, and small pieces of plastic. Fill the pitcher half full of water. Tell the class that the pitcher contains drinking water; then proceed to dump the oil, dirt, dye, and plastic into the water. Stir the mixture and pour some into the glass. Hold up the glass and ask, "Would anyone like a drink?" Ask students if they would like to use water asy, would alyone use a unity rate sources in they would like to use water like this to cook with, swim in, or wash their clothes. Tell them that water in this condition—and worse—is the only kind of water that some people have access to. Then explain that students will be reading about water pollution, an issue that is global because it affects people all over the world.

Preview Visuals and Headings Have students preview Introducing the Issue on pages 4–7 and World Hot Spots on pages 8–9 by looking at the visuals and skimming the headings. Note that some of the map captions in the three student pooks differ, reflecting the different case studies



Water Resources Teacher's Guide, pp. T20-T21

Guided Discussion provides questions intended to ensure student comprehension and stimulate class discussion.

GeoJournal directs students to write and reflect about how the issue affects them and their communities. The GeoJournal brings the issue home to the students.

Introducing the Issue and World Hot Spots

The lesson plan helps teachers use large-group instruction to engage students in the issue and motivate them to learn more.

Introduce & Engage provides teachers with an activity to capture students' attention and engage them in this global issue.

Differentiate

includes strategies for differentiating instruction for striving readers, English learners, gifted and talented students, pre-AP, and inclusion students.

Teach

GUIDED DISCUSSION

- 1. Analyze Data If 2 percent of the freshwater on Earth is frozen in polar ice or trapped in underground rock layers, what percentage of the world's water does that leave for people to use? Why is this figure alarming? (It le
- Analyze Visuals What kind of water pollution do the large photos on pages 4–6 show? How did this pollution probably occur? (a
- 3. Interpret Maps Review the World Hot Spots map, pointing out the specific hot spots (affected regions). What do the regions of the world with the worst water pollution have in common? (*They ar*

GEO JOURNAL

Direct students to keep a two-day record of all the ways they use rater in their everyday lives. After two days, have student their notes. What patterns do they notice about how they use wate Allow time to share this information in class.

Answers to Explore the Issue

SE page 7 All Levels

- For page / An Leveis
 Trotting plant material, animal and human waste, chemicals, and fossil fuels
 It kills people, causes diseases, contaminates sea life, beaches, and birds, and contributes to hunger and poverty.

SE page 8

- BELOW-LEVEL
 I. North America and Asia
- 2. agriculture, mining, manufacturin

- The regions with the most industrial pollutants are parts of Europe, northern Asia, North America; the regions with the least amounts are parts of Southeast Asia, and parts of Europe. 2. agriculture, mining, manufacturin

- ABOVE-LEVEL
 Industries dump a lot of chemicals into the water in these places.
- The people might soon lack a source of clean water to drink and be unable to eat any food that comes from these bodies of water.

Differentiate STRIVING READER

Outline Main Ideas Have students work with a partney to outline the main ideas as they read pages 4–7. Provide students with the following three main neadings for their outlines

- I. World supply of water . Sources of water polluti III. Effects of water pollution
- GIFTED & TALENTED

Investigate and Report

Ask students to investigate the meaning of the term fossil fuels and give a brief oral report to the class. Tell them to answer these two questions: Which fuels are fossil fuels? Why are they called that

T21

Organized for whole-class and small-group instruction

Global Issues allows teachers to blend whole-class and small-group instruction and is organized to help students become experts on specific topics related to the issue.

- Introducing the Issue and World Hot Spots provide content in common across all three leveled books.
- National Geographic at Work provides content in common across all three leveled books.
- Three levels explore the issue in two regional **Case Studies**.



Water Resources Student Edition, pp. 8–9

 What Can I Do? and Research and Write also provide shared content, allowing students to work together to act on what they have learned and express their opinions.

—and report your results

Rescue_a

You don't have to be a marine scientist to fight for our water sources. You just have to care-and get involved. One way to help is to identify a polluted river, lake, pond, or stream in your community and clean it up. With a little bit of work you can make a big difference.

IDENTIFY	ORGANIZE
Find out about the quality of the water sources in your community.	Advertise in your school paper or place posters in your neighborhood
* Talk to experts at your local museum,	to recruit volunteers.
university, or local water department to identify a body of water that needs help.	- Gather the supplies you'll need to clean up; gloves, garbage bags, shovels, and
 Ask what steps you can take to clean up the water or improve it in other ways. 	water-testing kits.
	 Identify an appropriate place to dispose of the garbage
ļ	
26	

Water Resources Student Edition, pp. 26–27

• Visual Glossary shows students the unique vocabulary they have learned in the book.



- Take before-and-after photos of the site and perform before-and-after water tests. to measure the results of your work. Have an adult help you take the tests and dispose of the water.
- List the pollutants you find and the strategies you use to deal with them.
- Videotape and interview the volunteers about their experiences.

- Use your photos and videos to create a multimedia presentation of your cleanup effort and show it to your class.
- Describe your efforts-and the difference you made-in an article for your school or community paper.
- Inspire others to take up the battle by sharing your story and your ideas for reclaiming water sources in a talk at your local library.

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GLOBAL ISSUES

eBooks visually take students into the region they are studying

- Students enter the environment of the issue being explored.
- Vocabulary is highlighted in yellow, and definitions appear when students scroll over the text.
- Infographics are interactive. As students scroll over them, important information appears.



Water Resources Student Edition, pp. 4–5





Water Resources Student Edition, pp. 6–7



Water Resources Student Edition, pp. 8-9

Social Studies

HUMAN ACTIONS



xplore the Issue



• Videos provide more in-depth information for selected topics related to the issue.

 Students can scroll to view the images and text more clearly.

• A World Map shows students more about each geographical location they are studying as they explore each Case Study.





SERIES

























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