

PAPER: SCIENCE AND SUSTAINABILITY

TEACHER GUIDE



Overview



UNIT LENGTH:

Three lessons

HOMEWORK:

Multiple-choice and short-response questions

Through reading and discussing *Paper: Science and Sustainability*, your high school students will develop skill at reading nonfiction that touches on both social studies and science/technical topics. They will also learn about one of the major industries in the world and the career and educational opportunities within it.

STANDARDS ALIGNMENT:

CCSS.ELA-LITERACY.RST.9-10.1 — Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.

CCSS.ELA-LITERACY.RST.9-10.2 — Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.

CCSS.ELA-LITERACY.RH.9-10.3 — Analyze in detail a series of events described in a text; determine whether earlier events caused later ones or simply preceded them.

CCSS.ELA-LITERACY.RST.9-10.6 — Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.

Lesson One

HOMEWORK

Students will read pages 8-13 and complete the multiple-choice questions on pages 14-15.

OBJECTIVE

- Introduce the topics of paper and the paper industry
- Cover key events in the history of paper production

STEP ONE

Point out that paper is something we use every day. In addition to having a fascinating history, the paper industry is one of the largest industries in the world—and offers extremely attractive salaries to its employees.

STEP TWO

Read and discuss pages 1-7.

Lesson Two

HOMEWORK

Students will complete the short response section on page 17 and will read pages 24-28.

OBJECTIVE

- Review comprehension of pages 8-13
- Discuss forest management with regard to paper production
- Read and discuss industrial paper production on pages 20-23

STEP ONE

Check student understanding by reviewing the content on pages 8-13.

STEP TWO

Check student performance on the multiple choice questions on pages 14-15. Answer Key: 1c, 2a, 3d, 4b, 5c, 6a, 7c, 8c, 9d, 10a.

STEP THREE

Discuss the short response question to ensure that students comprehend the concept involved. Ask students to complete the question for homework.

STEP FOUR

Read and discuss industrial paper production on pages 20-23.

Lesson Three

HOMEWORK

Students will complete the short response section on pages 34-36.

OBJECTIVE

- Review comprehension of pages 24-28
- Discuss career and educational opportunities within the paper industry
- Assess student comprehension with a section of questions for short responses

STEP ONE

Review pages 24-28.

STEP TWO

Explore career and educational opportunities in the paper industry. Read pages 29-30 with your students.

STEP THREE

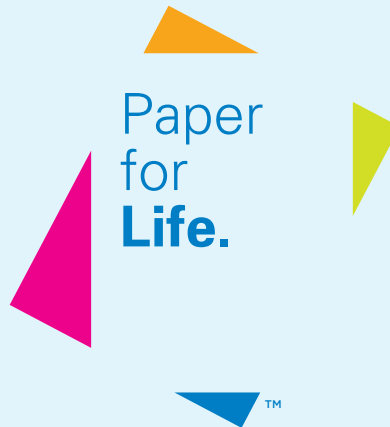
Assess student comprehension by having them complete the section of questions for short responses on pages 34-36.

FOLLOW-UP

Share the booklet with your school's college guidance counselor so that he or she is aware of the scholarship and program opportunities available to qualified students.



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