

Green Your Career: Grades 3-5 Lesson Guide

Summary Page

Lesson Objectives: Students will be able to:

- Define a green job
- Understand green jobs are a growing field of jobs
- Understand that there is a wide variety of green jobs for all levels of experience and education
- List at least three green jobs and explain how the jobs help the environment
- Research and present a green career in a Green Jobs Fair
- Learn about a career by interviewing a parent or other adult and share what they learned with their peers
- Decorate a box with their own characteristics and the characteristics of a green job that they are interested in
- Match green careers with definition of jobs while playing a Green Career Bingo game

Lesson Overview: In this lesson, students will learn about green careers—what they are, examples of green careers, and ways in which any job can be greener.

Activity 1: Green Jobs Fair Career Education 60 minutes homework/in-class research,
60 minutes in-class presentations

Students will learn about a particular green career and present what they learned to their peers.

Activity 1 Materials: Copies of “Green Jobs Fair Worksheet” (1 per student) and “Green Jobs Fair Sign-up Sheet” (1 per class) available in the “Related Resources” section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).

Extension: Informational Interview Career Education 30 minutes homework,
15 minutes in-class discussion

Students will interview a parent, teacher, or other adult to learn about their career, including whether it is a green career or how it can be made greener.

Extension Materials: Copies of “Informational Interview Questions” available in the “Related Resources” section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).

Activity 2: Hamburger Box Career Education, Math 30 minutes - 1 hour plus research
Students work individually to research components of their future dream career, then, using math skills, put together a display piece depicting a description of the career and what about the career is personal to them.

Activity 2 Materials: Computers, library book, and/or magazine to research the jobs. Copies of “Hamburger Box Instructions” (1 per student) and “Hamburger Box Example” (1 per teacher)

available in the “Related Resources” section of the K-2nd grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher). Tape or glue, scissors, crayons or markers, pictures or objects depicting careers, pictures or objects depicting students interests and skills that match their chosen career.

Activity 3: Green Career Bingo

Career Education

30 minutes

Students will play a game of green career-themed bingo. During the game, students will learn about 24 different green careers.

Activity 3 Materials: Copies of “Green Career Bingo Cards” (1 per student) and 1 copy of the “Green Career Bingo Teacher List.” Optional: Copies of “Green Career Bingo Pictures” (1 per student). Students can glue the “Green Career Bingo Pictures” or write the names of the green careers on their bingo cards. Both documents are available in the “Related Resources” section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).

Standards Correlations:

Next Generation Science Standards:

Earth and Human Activity: 4-ESS3-2; 5-ESS3-1

Common Core Math Standards:

Grade 4: 4.G. 1;

Grade 5: 5.G.3

Common Core English Language Arts Standards:

Grade 3: RI.3.1; RI.3.5; W.3.7; W.3.8; SL3.1 A-D; SL3.3; SL3.4

Grade 4: RI.4.3; W.4.2 A-E; W.4.7; W.4.8; W.4.9; SL4.1 A-D; SL4.4;

Grade 5: RI.5.7; W.5.2 A-E; W.5.7; W.5.8; SL.5.1 A-D; SL.5.4

**Note: many standards overlap between grade levels.*

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Flipped Lesson

Introduction: Introduce Green Careers to the class.

Conduct a brief discussion asking students some basic questions about green careers in order to determine their level of prior knowledge.

- When you hear the words green career, what are some careers that come to mind?
- Do you know any adults that have a green career?
- Why are green careers important?

Content:

1. Explain that you want students to have a richer background in order to have a more in depth discussion in class AND to have time in class to do more activities after they learn the content.

Vocabulary: career, green job, engineer, urban planner, HVAC Technician, activist

2. Introduce the video. Show students how to locate the video online at PowerSaveSchools.org/students (password: energy), under the 3rd-5th grade *Green Your Career* Lesson. Students will need to enter the password to view the video and quiz. Explain to students that they will be asked a few questions immediately after the video. The script for the video, quiz answers, and all other lesson plan resources for teachers can be found here: PowerSaveSchools.org/lesson-plans (password: efficientteacher), under the 3rd-5th grade *Green Your Career* Lesson. Please DO NOT give out this teacher information to students.
3. Remind students that this is like any other assigned homework, and not an optional assignment. They must watch the video outside of class in order to be able to participate fully in the fun activities that will follow in class.

Classroom Follow-Up Activities:

There are several options for activities following the delivery of content. We suggest that the following activities be done in the sequence listed below, but teachers may choose the combination of activities which best fits their own teaching situation, together with the results of the on-line assessment and class time schedule.

1. **Brainstorm:** Guided questions:
 - a. What is a green job?
 - b. What are some ways green jobs can help the environment?
2. **Short Discussion / Transition:** Pair and Share
 - a. In pairs: Tell a partner about your interests that you consider when thinking about future careers, such as your favorite subjects in school and hobbies you do for fun outside of school.

- b. Also discuss the values that are important to you in any future jobs you are considering (creativity, leadership, making a difference, becoming an expert in your chosen field, social status, prosperity, helping others, helping the environment, job security, etc.).
- c. Discuss which green careers, if any, sound interesting to you and why. If your dream job is not a green job, discuss ways you think you can make that dream job greener.

3. **Activity 1: Green Jobs Fair**

- a. Preparation:
 - i. Print “Green Jobs Fair Worksheet” (1 per student) and “Green Jobs Fair Sign-up Sheet” (1 per class) available in the “Related Resources” section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).
- b. The activity
 - i. Assign a green career to each student or allow them to sign up for a career of their choice. Some examples to choose from are included on the “Green Jobs Fair Sign-up Sheet.”
 - ii. Have students complete the “Green Jobs Fair Worksheet” for their assigned job. Students can do research in class or as homework.
 - iii. Have students present their findings to their peers in class as part of a “Green Jobs Fair.”
 - 1. Students will use the answers on their worksheets to talk about their green career for 2-3 minutes. For visuals, students can draw or print pictures of their green career, make a poster, or dress up as their green career.
 - 2. Depending on the size of your class, set up stations for students to present their career to a few peers at a time. For example, you can set up 10 stations for 10 students to present at a time. The remaining students can rotate from station to station (as time allows) to learn about each career for 2-3 minutes. When that round is complete, the next group of 10 students can take their place at the stations to present.

Extension: Informational Interview

- a. Preparation:
 - iv. Print copies of “Informational Interview Worksheet” (1 per student) available in the “Related Resources” section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher). The worksheet includes questions to guide the interview and space for students to write answers.
- b. The activity
 - v. Students will take home a copy of the “Informational Interview Worksheet” and use them to interview a parent or other adult about

their career. Students can also interview a teacher if another adult isn't available.

- vi. The next day in class, use the following questions to discuss what students learned through their interviews:
 - 1. What are some of the jobs you learned about? For each job, what are some typical job duties? And what skills, experience and education do you need?
 - 2. Did anyone learn about a green career? Which ones?

4. **Activity 2: Hamburger Box**

- a. Brainstorm
 - i. Brainstorm jobs: it's easiest to start with family members. What do they do for a living? What tools do they need, and what do they wear to work? If they don't live in the same town, where do they live?
 - ii. Brainstorm what students like to do? Do they enjoy planting gardens, dancing, or playing on a computer?
- b. Research
 - iii. Students research what objects or pictures depict their chosen job (ie. a marine biologist may want shells or pictures of marine wildlife)
- c. Building the hamburger box
 - iv. Each student receives construction paper and a copy of the "Hamburger Box Instructions" document available in the "Related Resources" section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).
 - v. On the outside of the box put objects or pictures depicting information about the career (see Research #2)
 - vi. On the inside of the box put objects or pictures depicting information about the student that shows why they would like to have this career. Be sure to consider what is green about this career.
 - vii. See the "Hamburger Box Example" document for an example of what the students' final product should look like.
 - viii. Optional: Let students talk about their finished hamburger box. Why did they choose this career? What is one cool fact about their chosen career?

5. **Activity 3: Green Career Bingo**

- c. Preparation:
 - i. Print copies of "Green Career Bingo Cards" (1 per student) and 1 copy of the "Green Career Bingo Teacher List." Optional: Print copies of "Green Career Bingo Pictures" (1 per student). Students can glue the "Green Career Bingo Pictures" or write the names of the green careers on their bingo cards. All documents are available in the "Related Resources" section of the 3rd-5th grade *Green Your Career* lesson on PowerSaveSchools.org/lesson-plans (password: efficientteacher).

- ii. Gather bingo card markers of your choice (beans, pieces of paper, etc.).
- d. The activity
 - i. Give each student a copy of the “Green Career Bingo Card” and “Green Career Bingo Pictures” and 24 markers.
 - ii. Have students cut out the 24 green career pictures and glue the pictures to the 24 bingo card places. Instruct students to place the pictures in random boxes so that everyone has a different bingo card.
 - iii. To play the game, you can either call out the title or description of each green career from the “Green Career Bingo Teacher List.” If you call out the career titles, students put a marker on that title. If you call out the career description, students should put a marker on the name of the career that best matches that description. If you call out descriptions, you can have students raise their hands to guess which job matches the description (Assessment Opportunity). As you call out the career titles or descriptions, mark them on the “Green Career Bingo Teacher List” so you know which ones you’ve called out.
 - iv. When students have 5 boxes in a row marked, they should yell out “Bingo!” and call out the careers they have marked to make sure they match what’s marked out on the teacher list. Have students clear their boards and play again.

Closure and Next Steps:

1. Review
 - a. Review the major concepts covered in the video or traditional lesson content.
 - i. Review the definition of a green career.
 - ii. Review the fact there a wide variety of green jobs for all levels of experience and education.
 - iii. Review an example of a green career that requires a college degree and an example of a green career that does not require a college degree.
2. Brainstorm
 - a. What are some ways students can continue their career exploration? Here are some suggestions:
 - i. Talk to a teacher, guidance counselor, or other professionals for tips on how to find the career that’s right for you.
 - ii. Look for internship and volunteer opportunities, which will allow you to gain experience, learn more about a particular job, and earn community service hours.
 - iii. Go online to research potential jobs.

Assessment Opportunities:

Informal Assessment can occur throughout the lesson

- Following the viewing of the video lesson, students' answers to the embedded follow-up questions will help teachers assess their understanding of the information presented in the video.
- Teacher observations of students' participation during the brainstorming session and discussion / transition discussion between the video viewing or lesson presentation and the activities will also help teachers assess their understanding of the information presented in the video.
- Teachers can observe discussion during "Hamburger Box" activity.

Graded Assessment opportunities

- Teachers can grade the "Green Jobs Fair" worksheet and student presentations
- Teachers can grade the "Informational Interview" worksheet and discussion.
- Teachers can grade student participation in discussing during the "Green Career Bingo" game.
- Teachers can grade student-made "Hamburger Boxes."