Lesson One: Nursery/Landscape Safety

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STUDENT LEARNING OBJECTIVES:

After completing these activities, students will…

1. Understand different methods of safety and equipment used for nursery/landscape.
2. Apply skills learned to create a demonstration of knowledge.
3. Observe peers' demonstrations and apply knowledge learned.

TIME REQUIRED: 90 minutes

RESOURCES:

1. Nursery/Landscape CDE Handbook, https://ffa.box.com/s/yajzverkriebuvw9d9n16neh6v0a93fe

EQUIPMENT AND SUPPLIES NEEDED:

1. A computer
2. Projector
3. Poster-making supplies, if desired
4. Miscellaneous supplies as needed for demonstrations
5. Internet access

THESE ACTIVITIES ARE ALIGNED TO THE FOLLOWING STANDARDS:

AFNR Performance Element

- CS.03. Examine and summarize the importance of health, safety and environmental management systems in AFNR workplaces.

FFA Precept

- FFA.PL-A.Action: Assume responsibility and take the necessary steps to achieve the desired results, no matter what the goal or task at hand.
- FFA.CS-M.Communication: Effectively interact with others in personal and professional settings.
- FFA.CS-N.Decision Making: Analyze a situation and execute an appropriate course of action.

Common Career Technical Core

- AG3 Examine and summarize the importance of health, safety, and environmental management systems in AFNR businesses.

Common Core - Speaking and Listening

- CCSS.ELA-Literacy.SL.9-10.4 Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.

Next Generation Science

- HS-ETS1-3 Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.

AFNR Career Ready Practices

- CRP.02. Apply appropriate academic and technical skills. Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive.
- CRP.04. Communicate clearly, effectively, and with reason. Career-ready individuals communicate thoughts, ideas and action plans with clarity, whether using written, verbal and/or visual methods.
- CRP.06. Demonstrate creativity and innovation. Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization.
- CRP.07. Employ valid and reliable research strategies. Career-ready individuals are discerning in accepting and using new information to make decisions, change practices or inform strategies.
- CRP.08. Utilize critical thinking to make sense of problems and persevere in solving them. Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem.
- CRP.11. Use technology to enhance productivity. Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace takes and solve workplace problems.

Partnership for 21st Century Skills

- Communication
- Critical Thinking and Problem Solving
- Implement Innovations
- Think Creatively

LESSON PLAN:

1. ### *Introduction*

   Hello class! Today we are going to talk about nursery/landscape safety. Before we get to that, let's talk about accidents or unsafe procedures that you have seen. When was a time that you witnessed a safety-related accident? What happened with those involved? What do you think caused it? Pause for student responses.

   What is a dangerous thing that you encounter every day? How do you know not to get hurt? Do you have to wear special equipment for safety? Pause for student responses.

   Okay, great answers! Take five minutes and create a safety poster that goes with an activity that you do every day. (Example activities: driving a car, making dinner, playing sports, etc.)

   Today, you will create a safety demonstration for different equipment that is used for nursery/landscape tasks.

   Transition: *Please, find a partner that you would like to do this demonstration with, and wait for instructions.*

2. ### *Activity*

   During this activity, students will be in pairs. Each pair will show how to properly and safely use different landscape tools. Assign each pair one of the following categories:

   - Line trimmer
   - Chain saw
   - Edger
   - Power blower
   - Surveying instrument
   - Push mower
   - ZTR mower
   - Intermediate walk-behind mower
   - Skid steer loader

   After partners have been assigned, have each pair create a demonstration that shows others how to use the tool listed. The demonstration should include equipment safety, protective apparel and operational safety. Make sure that each group is using the corresponding rubric for the tool assigned. These are located within the Nursery/Landscape CDE Handbook. The direct URL is https://ffa.box.com/s/yajzverkriebuvw9d9n16neh6v0a93fe

   Give the students ample time to create their demonstration. This assignment may need a few days to be completed in class or as a homework assignment, especially if you do not have the resources on hand within your program. Using community resources may also be helpful.

   After the demonstrations have been developed, allow the students to demonstrate for the entire class so that all students can see the demonstrations and learn how to safely use each tool. If possible, have half of the students present one day and half the next day. As an alternative, have the students present to small groups multiple times rather than to the entire class at once. As a short review, have observing students participate and gain hands on experience with the tool.

3. ### *Follow Up*

   After all student pairs have presented their demonstrations, have students vote on which pair they thought had the most effective demonstration.

4. ### *Leveling Up*

   For students interested in tool safety, have those students create a series of short videos, presentations and/or posters that focus on nursery/landscape tools and safety.