

NAME: _____

Appendix 4: Big Screen on Middle America

Created: Summer 2020 by the National FFA Organization

Part 1

DIRECTIONS:

Read the article "Big Screen on Middle America" in the summer 2020 issue of *FFA New Horizons* and answer the questions below.

1. What is the story of the feature film *Silo*?
2. Grain bins account for _____ percent of confined-_____ incidents reported over the last _____ years, including _____ fatalities in _____.
3. What does this film also highlight and bring attention to?



Part 2

DIRECTIONS:

Go to this website, https://nasdonline.org/static_content/documents/7156/d002403.pdf, to learn more about grain bin safety and answer the questions below.

1. In your own words, describe flowing grain:
2. If a person is caught in grain and buried up to their waist, how many pounds of force does it take to free them?
 - A. 100
 - B. 150
 - C. 250
 - D. 300
3. How can you free someone trapped in grain?
4. Why can someone potentially suffocate when trapped in grain?



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Part 3

DIRECTIONS:

For this activity, you will plan and record a 30-second PSA (public service announcement) about grain bin safety.

Use the space below to plan out your message for the PSA. (Use the boxes to illustrate the message and the lines to write out the message.) Next, use a cellphone or computer to record your PSA.

Introduction:

Middle:

End:

NAME: _____

Part 4

DIRECTIONS:

Work with a partner to create a mini lesson about grain bin safety that you can teach to elementary students. Follow the steps below to create the lesson. Your lesson should last approximately 20 minutes.

Suggested websites to help with your creation and research:

Entrapment Risk Due to Flowing Grain, <https://ag-safety.extension.org/entrapment-risk-due-to-flowing-grain/>

Grain Safety background information and activity book, https://nasdonline.org/static_content/documents/7156/d002403.pdf

Introduction of lesson:

A lesson needs a brief introduction of what the students will be learning. Write the message you want to start your lesson with below:

Middle of lesson: Activity

Create one activity for students to complete about grain bin safety. Information should include the name of activity, objective of the activity and step-by-step instructions for the students.

Name of Activity: _____
(Example: Grain Bin Safety)

Objective(s) of the activity:
(Example: Understand grain bin hazards, identify the steps to rescue someone from grain bin entrapment, create a flyer about grain bin safety)

Step-by-Step Instructions:
(Example: When giving instructions, be as detailed as possible. For the flyer activity, you would tell students the requirements of what the flyer needs to contain. For example, the flyer needs to be creative and include 4 pictures, either hand-drawn or printed and taped on; it needs to include the hazards of grain bins and all the steps of how to rescue someone trapped in a grain bin.)



End of lesson: Wrap-up

The end of the lesson should have students reflect on and process what they have just learned. Create three questions for students to reflect on what they have learned. Record the questions below next to each light bulb.



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Key – Appendix 4: Big Screen on Middle America

Created: Spring 2020 by the National FFA Organization

Part 1

DIRECTIONS:

Read the article “Big Screen on Middle America” in the summer 2020 issue of *FFA New Horizons* and answer the questions below.

1. What is the story of the feature film *Silo*?

Corn turns to quicksand and a community turns to each other. The film brings light to a danger on American farms: grain entrapment.

2. Grain bins account for 71 percent of confined-space incidents reported over the last 50 years, including 15 fatalities in 2018.

3. What does this film also highlight and bring attention to?

It highlights a bigger mental health issue. Farmers face a lot of stressors and then enter dangerous situations without even thinking about it.



Part 2

DIRECTIONS:

Go to this website, https://nasdonline.org/static_content/documents/7156/d002403.pdf, to learn more about grain bin safety and answer the questions below.

1. In your own words, describe flowing grain:

This happens when grain is being moved by a grain-handling system. When a grain bin is emptied, gravity pulls the grain into an auger at the bottom.

2. If a person is caught in grain and buried up to their waist, how many pounds of force does it take free them?

- A. 100
- B. 150
- C. 250
- D. 300

3. How can you free someone trapped in grain?

The only way to free someone trapped in grain is to completely surround the victim with a barricade to prevent the grain from back filling around them. Grain bin rescue tubes are now available for first responders.

4. Why can someone potentially suffocate when trapped in grain?

Suffocation can happen if a person is pulled under the grain. The grain kernels do not allow enough oxygen to get to a person submerged under grain. Along with the depletion of oxygen, the heavy grain also puts pressure on the lungs, so they have trouble expanding. Every time the victim exhales, the grain settles reducing their lung capacity. In addition, grain dust can be highly combustible. Great care must be taken not to ignite it, causing an explosion.

