

name: _____

date: _____

class: _____

Welcome, teachers, to your guide for successful student completion of the Commodity Transportation Student-Led Assignment, a webquest designed to help your students become more aware of the process of moving agricultural commodities around our country and world to supply food to consumers. Your students will want to save a copy of this assignment to a cloud storage platform, flash drive or computer. They will follow your directions for submission of their assignment.

Before students begin this activity, they will need a computer with internet access and a writing utensil. Students will complete the assignment by visiting each of the linked items and answering the following questions.

Activity 1: Destination of soybeans

In this activity, students will hear John Motter, Treasurer of The United Soybean Board (USB), explain how far and wide those soybeans travel. Students will gain background information about the transportation of commodity crops around the world. grownextgen.org/news/article/destinations-of-soybeans/

Answer the following questions while you watch:

1. What percentage of soybeans grown in the US are exported?

60%

2. What is the second largest market for US-grown soybeans?

Mexico

3. What is the largest market for US-grown soybeans?

China

4. How many countries import US-grown soybeans?

70

Activity 2: Transportation issues of soybeans

Learn about the way flooding affects soybean transportation from Ohio to China in this NPR story link below. Late fall and winter are the peak times for American farmers to get their soybeans to overseas customers before Southern Hemisphere soybeans reach the market in the spring. npr.org/2015/12/31/461627703/record-water-levels-shut-down-miles-of-mississippi-river

After reading, answer the following questions:

1. Briefly explain the travel process for soybeans going from the US to Asian markets.

It will involve transportation by truck to one of our major rivers, predominantly the Mississippi, than a 900- to 1000-mile journey via barge. All barges will be connected together with a tow boat pushing from the back. The barges and their load will travel to an export terminal in Southern Louisiana near New Orleans where the soybeans will be loaded onto an ocean vessel.

2. What countries are our biggest soybean export competitors?

Argentina and Brazil

Activity 3: Logistics and transportation

In [this career video](https://grownextgen.org/career-videos/video/logistics-and-transportation/) (grownextgen.org/career-videos/video/logistics-and-transportation/), Rusty Orben, Resident Vice President for CSX Transportation, and Jim Wellman, President of Wellman Seeds and Wellman Farms, talk about the wide range of career opportunities related to logistics and transportation.

As you watch, answer the following questions:

1. What is Ohio's ranking for logistics and infrastructure?

2nd

2. What is Ohio's rank for soybean exports?

6th

3. Name two of the countries that are customers of Mr. Wellman.

Could include: Japan, Taiwan, Singapore, Malaysia, Indonesia

4. Where does CSX have rail lines?

NW Ohio, Columbus, Cincinnati, Cleveland

5. Rail provides an efficient and direct route for soybeans to travel overseas.

True

False

6. Transport of crops overseas will sometimes involve more than one mode of transportation.

True

False

7. What percent growth is predicted for jobs in the rail industry?

22%

8. List 3 of the degrees recommended at the end of the video that are related to this career video.

Could include: Transportation, Management, Engineering, Logistics, Civil Engineering, Business Logistics, Business Management, Environmental Engineering

Once you have completed the video, choose one of the careers listed in the video to research. Find out the demand for that job, the education requirements, the location of those types of jobs, and other interesting facts about what a person with that job does on the job day-to-day. Present your information using video or a powerpoint.

- train operator
- track maintenances
- engineer
- bridge engineers
- accountant
- lawyer
- farm supply
- agronomists
- truck drivers
- commodity buyer/shipper
- environmental engineer
- logistics coordinator
- warehouse manager
- shipping clerk
- supply chain procurement manager

Here is the rubric with which your instructor will score your assignment:

	4	3	2	1
Required elements for career poster	The presentation includes all required elements as well as additional information.	All required elements are included on the presentation.	All but 1 of the required elements are included on the presentation.	Several required elements were missing.
Labels	All items of importance on the poster are clearly labeled with labels that can be read from at least 3 ft. away.	Almost all items of importance on the poster are clearly labeled with labels that can be read from at least 3 ft. away.	Many items of importance on the poster are clearly labeled with labels that can be read from at least 3 ft. away.	Labels are too small to view <i>or</i> no important views were labeled.
Graphics: relevance	All graphics are related to the topic and make it easier to understand. All borrowed graphics have a source citation.	All graphics are related to the topic and most make it easier to understand.	All graphics relate to the topic. One or two borrowed graphics have a source citation.	Graphics do not relate to the topic <i>or</i> several borrowed graphics do not have a source citation.
Attractiveness	The poster is exceptionally attractive in terms of design, layout, and neatness.	The poster is attractive in terms of design, layout, and neatness.	The poster is acceptably attractive though it may be a bit messy.	The poster is distractingly messy or very poorly designed. It is not attractive.
Grammar	There are no grammatical/mechanical mistakes on the poster.	There are 1–2 grammatical/mechanical mistakes on the poster.	There are 3–4 grammatical/mechanical mistakes on the poster.	There are more than 4 grammatical/mechanical mistakes on the poster.