

LIVESTOCK & AGRICULTURE GRADE 8 STEM

ART SAVES LIVES! ENVIRONMENTAL AWARENESS ON A TROPHIC LEVEL



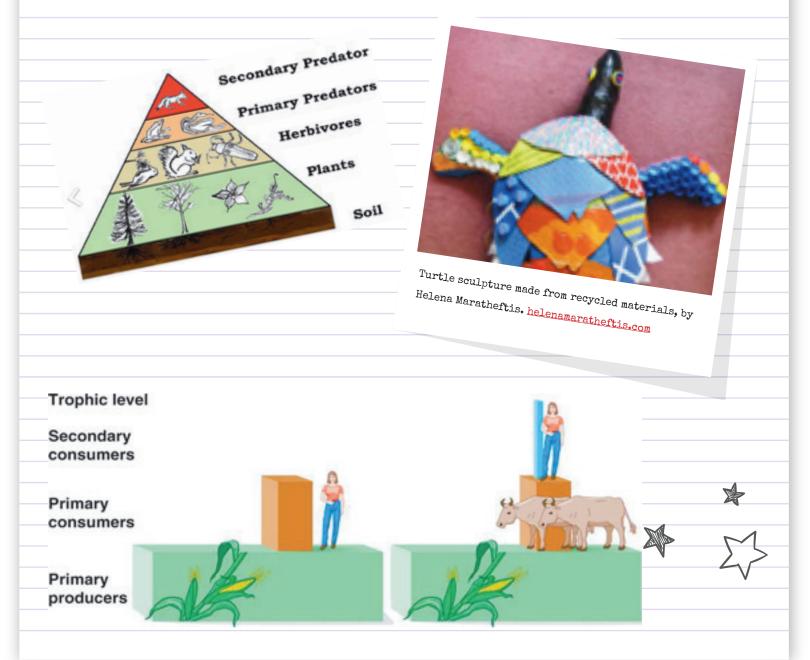
STUDENT EDITION

GRADE: Eight

Art Saves Lives! Environmental Awareness on a Trophic Level

Recap

- \star Recall the in-class discussion you had about what it
 - takes to grow a successful crop in Texas, and how plants,
 - humans, and animals get their energy.
- \star Review the trophic level diagrams below:



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Environmental Awareness on a Trophic Level

- \star Visit the following links again to review class discussions on farmland, pollution, and environmental awareness art:
 - * https://www.farmland.org/our-work/areas-of-focus/ farmland
 - * http://homeguides.sfgate.com/pollution-affect-livingthings-79218.html

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* http://www.hongkiat.com/blog/public-awarenessartwork/

Optional Materials to Bring

- ★ Smart Phone, Tablet
- 🛨 Pencil & Sketchbook
- ★ Science Notebook or Paper

Plan Your Route.

- ★ From the Texas Star, head over to the Greenhouse and take a tour.
- * When you're finished, go up MLK Blvd to the Livestock Barns and explore.



While You're There

help you with up to three projects: 1. Create a trophic level pyramid of the "fair ecosystem" 2. Craft a graphic organizer to classify the animals you observed (Math Connection) 3. Design your own environmental awareness art The goal of your visit is to gather information about the plants and animals you see in the Greenhouse and Livestock Barns so that you can complete the three projects back at school. Be sure to ask questions of the people that you see caring for the plants/animals. They are there to help!

You will use information you gather at the State Fair to

STUDENT EDITION Art Saves Lives! GRADE: Eight **Environmental Awareness** STEM on a Trophic Level

GREENHOUSE

- ★ Pay attention to all of the things that are needed to grow plants/ crops successfully. What type of soil is
 - What added nutrients are needed?
 - needed, if any? Where are they getting the majority of their
 - How much sunlight/rain is needed?
 - What sorts of things hinder their ability to
 - What trophic level would
 - you put them in?

LIVESTOCK PAVILION

- ★ Join a Guided Livestock
- Think about all of the different things that are needed to raise and breed
- healthy animals. What do the animals in the livestock barn eat?
- What trophic level would you put them in? Could they belong in different trophic levels?

MATH CONNECTION

Use these questions to help you with the Math Connection portion of this lesson.

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- How would you describe each of the animals?
- What characteristics do the animals have in common?
- What characteristics make the animals different?
- How would you classify or group the animals you observed?

Back at School

When you return to school following your visit, you will work on the three projects above. See your teachers for more information.