TEKS

4.9 Organisms and environments. The student knows and understands that living org within an ecosystem interact with one another and with their environment. The student expected to:

B. describe the flow of energy through food webs, beginning with the Sun, and predic changes in the ecosystem affect the food web.

English Language Proficiency Standards (ELPS)

5.B Cross-curricular second language acquisition/writing. The student is expected to write using newly acquired basic vocabulary and content-based grade-level vocabulary.

Materials

lists aid in activity preparation.

Materials

For the folder

- cardstock
- small sticky note, 1" x 1" or similar
- · snack-size plastic resealable bag
- tape

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The titles of **Activity Masters** and **Student Pages** are printed in bold for ease of reference.

For each student

Flow of Energy

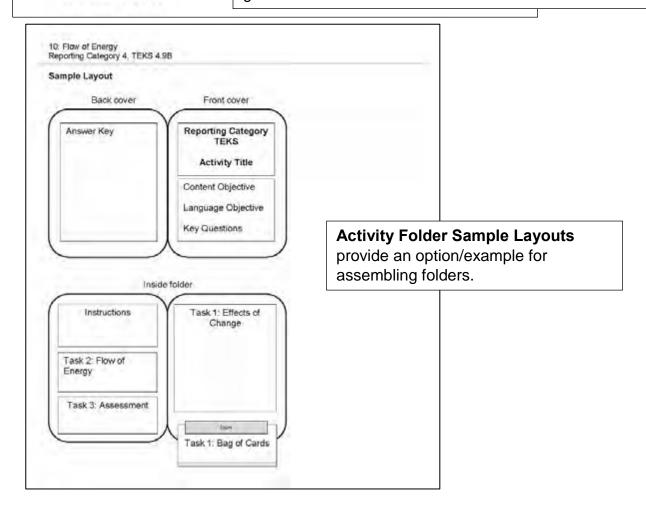
STAAR® Release Test Questions (TEKS 5.9B) that are supported by 4.9B

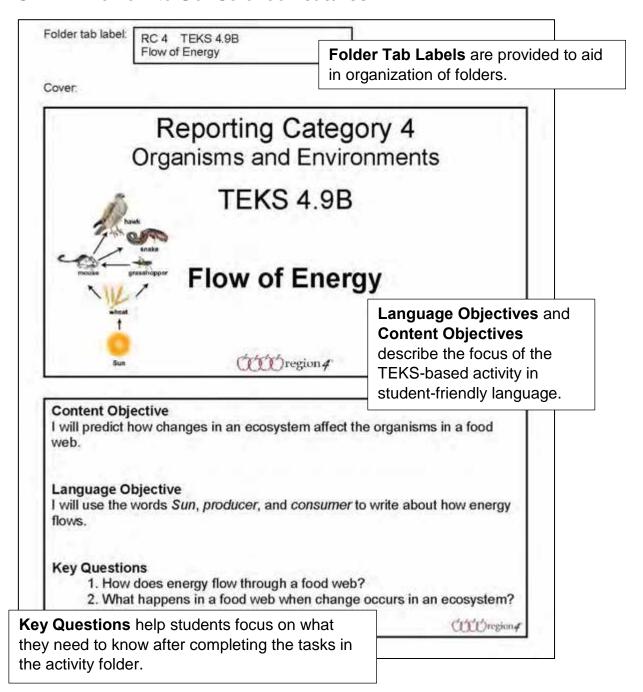
2013: Questions 8, 27

2014: Questions 9, 28, 37

2015: Questions 17, 32

2016: Questions 4, 37 2017: Questions 5, 22 **STAAR®** Released Test Question item numbers for the grade 5 exam are listed for reference or further review.





Flow of Energy Instructions

Task 1: Effects of Change

Observe the food web.

Varied border designs are used to differentiate tasks.

border to fill in the blanks on the statement. population that is declining for each statement. ther an increase or decrease in the affected

population.

- . Record your answers and complete the statement on the handout.
- · Repeat these steps three more times using cards with similar borders.

Task 2: Flow of Energy

 Write on your handout one sentence that describes how energy flows through a food web. Use the words Sun, producer, and consumer in your sentence.

Task 3: Assessment

Read and work through the assess

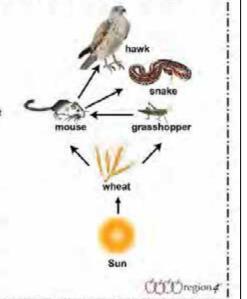
Each activity includes a literacy component or career connection to foster student engagement and processing.

Task 3: Assessment

Observe the food web.

What will most likely happen to the organisms in the food web if a drought occurs?

- The grasshopper population will increase because the mouse population will not be eating wheat.
- B. The mouse population will decrease because a tack of water will cause a decrease in wheat.
- C. The snake population will decrease because the hawk population will have more mice to eat.
- D. The hawk population will increase because the snake, mouse, and grasshopper populations will have more to drink.



Name	Date		
Task 1: Effects of Change 1. The population This caused the because	declined due to take with	•	udes a student ovides students urce.
2. The population This caused the because 3. The population This caused the because	Task 2: Flow of Energy Think about this You are pa What is the energy source for the words Sun, producer, and of	the food you eat? How is	that energy transferred to you?
4. The population		1	
This caused the because	Task 1: Effects of Change Cards		
	Effects of	a widfire	rabbit
because	Effects of Change Cards	a wildfire pesticides	rabbit
because	Effects of Change Cards		