Workshop 4: How do plants and animals adapt to changing seasons?					
<ul> <li>Anchor Text <ul> <li>Adaptation and Competition by Ann Fullick, pages 26–30</li> </ul> </li> <li>Materials <ul> <li>For Workshop</li> <li>Claims and Evidence T-Chart</li> <li>Class functions/adaptations chart</li> <li>Class functions/adaptations chart</li> <li>Chart paper and markers</li> <li>Students' science notebooks</li> <li>Class KLEW chart</li> <li>Claim Maps <ul> <li>Levels 1–2</li> <li>Levels 3–4</li> <li>Levels 5–6</li> </ul> </li> <li>For Stations</li> <li>Butcher paper to make murals</li> <li>Nonfiction and fiction books on adaptation, animals, and endangered species</li> <li>Writing materials for independent writing station</li> <li>Vocabulary information and worksheets</li> <li>Large paper, markers, and other resources for projects</li> <li>Computers for student research</li> <li>Project 2: Animal Adaptations for Habitats</li> </ul> </li> </ul>	<ul> <li>Content/Language Objective</li> <li>Justify orally and in writing evidence of plant and animal adaptations using conjunctions (because, therefore, in order to, since) after completing leveled claim maps in pairs with: <ul> <li>a) Labeled pictures of academic vocabulary (scientific explanation, claims, evidence, structural adaptations, behavioral adaptations),</li> <li>b) Conjunction statements from anchor poster, and/or</li> <li>c) Published claim statement exemplars.</li> </ul> </li> <li>Science Outcome for Workshops 4–8 <ul> <li>Students use claims, evidence, and reasoning to explain.</li> </ul> </li> <li>Common Core State Standards <ul> <li>Reading Informational Texts 5.1: Quote accurately from texts when explaining what texts say explicitly and when drawing inferences from texts.</li> <li>Writing 5.1: Write opinion pieces on topics or texts, supporting points of view with reasons and information.</li> <li>Writing 5.1b: Provide logically ordered reasons supported by facts and details.</li> </ul> </li></ul>				
Whole Group		Notes			
<ul> <li>Connection</li> <li>In this workshop, we learn about adaptations for animals that live habitats. We will focus on both behavioral and structural added it possible for animals to survive throughout the seasons.</li> <li>Teaching/Active Engagement</li> <li>Remind students of the unit guiding question: Why are adaptation survival? Tell them they have completed another step of the imaking predictions. Introduce the next step: Plan how to get it to respond to the guiding question. Ask how they think they completed on the step of the season of the sea</li></ul>	the in changing eptations that make as necessary for inquiry process by information needed an answer the periments to answer	<u>GT LINK</u>			

they will answer the question using reading, writing, and research, and they will spend time in stations making claims and finding evidence around this question.
 Read yellow "Did you know...?" box on bottom of page 27 of Adaptation and Competition. Make Claims and Evidence T-Chart. For example:

I know/claim	l know/claim because (evidence)
I claim tree shapes in nature	I claim that evergreen trees are shaped like
have a purpose.	a triangle so snow can slide off.

questions, but this guiding question doesn't lend itself to investigations. Tell them

Explain that you are making a *scientific explanation*. All scientific explanations include *claims* and *evidence* (refer to definitions in Notes).

## Claims, Evidence, and Reasoning

- Claims—Deductions or findings from investigations
- Evidence—Data that supports claims
- Reasoning—Explanations of why evidence supports claims

## Grade 5: Survivor!

## Grade 5: Survivor!

scientific explanation using claims/evidence format to add to class KLEW chart. tudents add to class Independent writing—Write notes and drafts for writing projects. Write what is • KLEW chart after writing scientific being learned in various genres (e.g., poems, stories, question-and-answer books). explanations and completing Use your two-column notes or create graphic organizers from the read-aloud to leveled claim maps. write about animal adaptations in any genre. Turn something you learned about why adaptation is important to survival into a scientific explanation using claims/evidence format to add to class KLEW chart. Vocabulary—Create games, charts, webs, and maps to help learn word meanings • and demonstrate understanding. Recreate one chart or web template in your science notebooks and define, use, and illustrate structural adaptation, behavioral adaptation, function, and several other science words. Project/Investigation—Engage in projects or investigations. . Start Project 2: Animal Adaptations for Habitats. Have students work in pairs to create pictures or in teams to create murals using butcher paper. • Internet search—Research online to locate specific information, make claims, find evidence, and/or take notes and write responses for independent projects or inquiry studies. Research different habitats or structural and behavioral adaptations and take two-column notes or create graphic organizers. Turn something you learned about why adaptation is important to survival into a scientific explanation using claims/evidence format to add to class KLEW chart. Whole Group Notes Anchor This activity contributes to  $\overleftrightarrow{\mathbb{D}}$  Invite students to share claims and evidence. As students share, ask them how the BOE and serves as a formative assessment for content and their evidence supports their claims (reasoning) using language stem, "My CCSS Writing 1 (W1). evidence supports my claim because \_\_\_\_\_." To help students learn to make evidence-based explanations, support them by asking clarifying questions. Language stem: "My evidence Have students share science notebooks with partners, discussing what is and what supports my claim because \_\_\_\_ could be in notebooks. As a class, determine expectations for science notebooks Have students communicate and independent work time. What should be included? How much? How should expectations for science notebooks, science notebooks be organized? Chart expectations for science notebooks. using language stems. "\_\_\_\_\_ should be included in our science notebooks because "Our science notebooks should be organized by \_\_\_\_\_ because **Connections to** Independent and Small Group Work Time Guided Reading and Writing Guided reading supports: group/ Teacher partner reading, picture books Lead guided reading with small group with content-specific texts, if possible. With partners, have students justify Confer with individual students and keep ongoing records of their performance and how their science notebooks stand goals in reading assessment notebooks. up against criteria in science note-**Students** book chart using language stem: "My science notebook fulfills the Students rotate between stations as in first Independent and Small Group Work Time.

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	criteria because it and"
Closure	Notes
<ul> <li>Have students share science notebooks with partners. How do you think your science notebooks stand up against criteria on our science notebook chart?</li> <li>Have students discuss the process of making claims and evidence. Have students use sticky notes to add their claims and evidence from independent work time to class KLEW chart.</li> <li>W Have students write in science notebooks one thing they learned using claims/ evidence format.</li> </ul>	This activity contributes to the BOE and serves as a formative assessment for content and CCSS Writing 1 (W1).