

WEEK 4 Lesson 1

**Structures that Help Solve Problems:
How Animals Build Homes**

Big Idea	Animals have specific structures that help them function. These structures help them to adapt to their habitat and survive. Animals can also design solutions that help them survive and meet their needs.
S & E Guiding Question	What structures help animals function and design solutions in order to meet their needs?
Content Objectives	I can discuss, ask questions about, and write about how animals use their unique body structures to help them survive. (1-LS1-1)
Language Objective	I can discuss with my group members how animals have structures that help them meet their needs and survive. (Practice 2)
Vocabulary	<p>beak: the structure on the face of a bird that allows it to eat, gather materials, and take care of its young</p> <p>antenna: feelers on the top of an insect’s head</p> <p>web: sticky silk woven by a spider to trap insects</p> <p>silk: a sticky thin thread produced by spiders</p>
Materials and Preparation	<ul style="list-style-type: none"> ● Animal Architects: Structures That Shelter, House, and Feed Animals (Video) (https://www.youtube.com/watch?v=7Sc2sOIXhOc) ● Spiny orb-weaver spinning a web clip (https://www.youtube.com/watch?v=qiKzt9t50Kw) ● projector and screen ● Structures and How Used sheet, one for each child ● fishing line, about 2 feet per small group ● scissors, one pair per small group <p>Children will work in small groups. If necessary, plan these groups ahead of time.</p>
Opening	Divide the children into their small groups and provide each group the

<p>5 minutes</p>	<p>fishing line and scissors. Tell them that their task is to make a spider web. Provide children a few minutes to attempt the task.</p> <p>Gather the whole group. <i>Were you able to build a spider web?... What was hard about building it?</i></p> <p>Show the Spiny orb-weaver video clip <i>Why do you think it is easy for a spider to build a web, but hard for a human?</i></p> <p><i>Today we will think more about animal structures that help them to function and solve problems. Animals use structures to meet their basic needs of food, water, and shelter. We will watch a video about how different animals build homes. While you watch the video, think like a scientist and use your observation skills. Pay close attention to the type of animal, the body part or parts they use to build shelter, and the problem it helps them solve.</i></p>
<p>Investigation 20 minutes</p>	<p>Distribute the Structures and How Used sheets. Show the Animal Architects video. If it is helpful, pause after each animal segment and allow time for the children to complete the notes.</p> <p>Pay attention to the animal(s) that children are particularly interested in. Spend more time discussing these animals and their structures. Invite any misconceptions and theories.</p>
<p>Closing 1 minutes</p>	<p><i>Turn and tell a partner about one animal you found interesting today!</i></p>
<p>Standards and Practices</p>	<p>1-LS1-1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.</p>
<p>Ongoing assessment</p>	<p>Assess children’s understanding of animal structures that help them survive.</p>

Notes