



Hidden Villa Environmental Education  
 Science and Nature Videos  
**Supporting Materials**

**119 – Horns and Antlers: Useful Tools or Nature’s Hood Ornaments?**

Description: This video presents information on the functions of external structures using the examples of horns and antlers. Can be used for NEXT GENERATION SCIENCE STANDARD 4-LS1-1

**4-LS1-1 From Molecules to Organisms: Structures and Processes**

Students who demonstrate understanding can: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

<p><b>Science and Engineering Practices</b>  <b>Engaging in Argument from Evidence</b>        Engaging in argument from evidence in 3-5 builds on K-2 experiences and progresses to critiquing the scientific explanations or solutions proposed by peers by citing relevant evidence about the natural and designed world(s). Construct an argument with evidence, data, and/or a model.</p>	<p><b>Disciplinary Core Ideas</b>  <b>LS1.A: Structure and Function</b>        Plants and animals have both internal and external structures that serve various functions in growth, survival, behavior and reproduction.</p>	<p><b>Crosscutting Concepts</b>  <b>Systems and System Models</b>        A system can be described in terms of its components and their interactions.</p>
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**Questions on video:**

- What are some differences between horns and antlers?
- What are their main uses?

**Supplemental questions and activities:**

- Make a list of animals that have antlers and a list of animals that have horns.
- What farm animals have horns?
- Animals display a variety of messages without using their voice. How do you communicate without voice?
- Choose a partner and display emotions without words. We are animals and we do non-verbal communication.

**Other related videos:**

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| 107 – Deer Ears: Your Very Own Super Power  | 121 – Reconstructing a Deer Skeleton             |
| 108 – Woodrats: Forest Engineers            | 122 – Life in the Air: Adaptations of a Bird     |
| 109 – Six Parts of a Plant and What They Do | 123 – Life Without Limbs: Adaptations of a Snake |
| 120 – Seed Dispersal                        | 124 – Life on the Prowl: Adaptations of a Fox    |

Hidden Villa is a 1600 acre wilderness and organic farm located in Los Altos Hills, California.  
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