



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

**125 – Let’s Play a Trick...On a Tick!**

Description: This video shows how ticks use perception to detect an animal's passage and how a person can use this knowledge to avoid getting bitten by a tick. Can be used for NEXT GENERATION SCIENCE STANDARD 4-LS1-2

**4-LS1-2 From Molecules to Organisms: Structures and Processes**

Students who demonstrate understanding can: Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.

<p><b>Science and Engineering Practices Developing and Using Models</b>          Modeling in 3-5 builds on K-2 experiences and progresses to building and revising simple models and using models to represent events and design solutions. Use a model to test interactions concerning the functioning of a natural system.</p>	<p><b>Disciplinary Core Ideas</b>  <b>LS1.D: Information Processing</b>          Different sense receptors are specialized for particular kinds of information, which may be then processed by the animal’s brain. Animals are able to use their perceptions and memories to guide their actions.</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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**Supplemental questions:**

- How do ticks know which grasses have been touched by animals?
- What plants do ticks live on?
- Can ticks jump or fly?
- Why do ticks hang over the trail on grass?
- What can you do to avoid ticks?
- True or false - For most of their lives, ticks are vegetarian.