

Animal Behavior: Response to Light

Topic or Concept

Light affects the behavior of animals in both positive and negative ways.

Objective

Investigate and demonstrate response of various invertebrates and vertebrates to light.

<p align="center">Materials</p> <p align="center">Available from Region 20 Living Science Materials Center</p>	<p align="center">Enrichment Activity</p>
<p>LM-101 Small mammal LM-13 Planaria LM-11 Hydra LM-9 Mixed Protozoan</p> <hr/> <p>Not Available from Region 20 Living Science Materials Center</p>	<p>Problem What are some effects of light on the behavior of various animals?</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Using a protozoan, or other invertebrate, design an experiment that demonstrates response to and behavior associated with light. 2. Carry out your experiment, record additional resources, and write a conclusion. 3. Repeat one and two using a vertebrate. (Small animal). Compare results of vertebrate with that of invertebrate (Steps 1 and 2). <p>Questions Select and explore any of the following questions that are of interest to you:</p> <ol style="list-style-type: none"> 1. Is light a determining factor in migratory behavior of birds? 2. Is light a determining factor in homing response of some organisms? 3. Can you think of an example where light plays an important role in development of an organism? 4. Can you determine possible advantages for positive or negative photo-taxis in an organism of your choosing? 5. Explore samples of human behavioral responses involving light or the absence of it. Do emotional changes result if a person is deprived of light? 6. Explore examples of human behavioral responses involving light or the absence of it.
<p>Microscope Light sources</p>	