

Lesson Plan

Subject: Science 8th Grade

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<p>Overview & Purpose Using two guinea pigs to discuss adaptations and survival</p>	<p>Education Standards Addressed (TEK) 8.11(C) explore how short- and long-term environmental changes affect organisms and traits in subsequent populations</p>
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	Teacher Guide	Student Guide	
<p>Objectives (Skills/information that will be learned)</p>	<p>Use the differences of the two species to discuss how their environment and appearances are linked and needed to survival.</p>	<p>Discuss different fur needed for survival in different locations/ environments</p>	<p>Materials needed Abyssinia & American Guinea pigs & student created t-chart</p>
<p>Information (Demonstration or lesson details)</p>	<p>Using a map of Chilean mountains, pictures of the environment: discuss the fur needed to survive in the high mountains - THEN- using pictures of grasslands of America to discuss the adaptations an animal would need for survival</p>	<p>Students will create a t-chart for the two environments (Chilean mountains & American grasslands) - with a focus on temperatures and food available for small rodent. Then create a t-chart over observations of two guinea pigs</p>	
<p>Verification (Student understanding steps or checklist)</p>	<p>ensure students are focused on adaptations, not just color and size (could be different because of age difference of guinea pigs)</p>	<p>Observations: hair texture? hair length? hair density? adult size?</p>	<p>Other resources research on internet for common colors and patterns- is there a commonality?</p>
<p>Activity (Independent activity to reinforce lesson)</p>	<p>Using two Guinea Pigs: Wicket (Am) has smooth, fine hair Skywalker (Ab) has rough, course hair</p>	<p>Students will come and create observation in small group</p>	
<p>Summary</p>	<p>Discuss pet safety: handling rules, hand washing/sanitizer, and noise levels</p>		<p>Additional notes</p>