

InterSexual Selection: Weird Mating Displays

Teacher: Megan Stiffler
 12th grade
 AP Biology
 50 min class



<i>Standards:</i>	<p>Indiana Science standards B.1 Students work with the concepts, principles, and theories that enable them to understand the living environment. They recognize that living organisms are made of cells or cell products that consist of the same components as all other matter, involve the same kinds of transformation of energy, and move using the same kinds of basic forces. Students investigate, through laboratories and fieldwork, how living things function and how they interact with one another and their environment.</p>										
<i>Overview:</i>	<p>-Students will learn about intersexual selection and how it favors some very strange animal behaviours especially during mating. They will learn the logic behind why selection would favor such behaviours and be able to answer questions about it after the lesson.</p>										
<i>Preparation:</i>	<p>Teacher needs to beforehand put all needed youtube videos onto your Spaaze account to get all of them in one place. Teacher will need to pull up Spaaze account during the lesson to show the videos.</p>										
<i>Materials:</i>	<table border="1" style="width: 100%;"> <tr> <td>Peafowl displays</td> <td>http://www.youtube.com/watch?v=QaH0Q42lbG</td> </tr> <tr> <td>Widowbird mate selection</td> <td>http://www.youtube.com/watch?v=TFi2GIvOaQ0</td> </tr> <tr> <td>Sexual selection in peacocks</td> <td>http://www.youtube.com/watch?v=gKybAp--n7M&feature=related</td> </tr> <tr> <td>Spaaze Account</td> <td>Powerpoint presentation</td> </tr> <tr> <td>Computer with internet</td> <td></td> </tr> </table>	Peafowl displays	http://www.youtube.com/watch?v=QaH0Q42lbG	Widowbird mate selection	http://www.youtube.com/watch?v=TFi2GIvOaQ0	Sexual selection in peacocks	http://www.youtube.com/watch?v=gKybAp--n7M&feature=related	Spaaze Account	Powerpoint presentation	Computer with internet	
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<i>Procedure:</i>	<ul style="list-style-type: none"> -Briefly discuss strange traits that some animals have and why potentially it would have those (10 mins) -Give lecture on intersexual selection following powerpoint presentation (25 mins) -Show videos from Spaaaze account. (5 mins) -Distribute homework and discuss shortly (2 mins) -Give time to start homework (8 mins)
<i>Lead -in Questions:</i>	<ul style="list-style-type: none"> -What traits do you know of in animals that seem to serve no purpose? -What potentially could those traits be used for? -Could they possibly make the animal more attractive to the opposite sex? -What mechanism could it show?
<i>Homework:</i>	<p>Homework will be a worksheet that has 5 questions related to specific animal traits and how they could be selected for using mate preference. A passing score would be to get 4 out of the 7 completely correct. By the end of the lecture students should be able to get 7 out of 7 correct.</p>