

# AP Biology Summer Choice Board

Overview: Welcome to your AP Biology summer assignment. It is assumed that you are taking this course because you are interested in biology. To foster and grow that interest, you will choose different activities for each Big Idea of our course. You complete at least one activity per row. When we return to school, you will be asked to share your experiences with your classmates and teacher. How you choose to do, submit your work, is encouraged to make it interesting to listen to.

Big Idea	Activity Choice			
	Something to Experience	Something to Read	Something to Watch	Something to Listen to
<p>1. EVOLUTION</p> <p>The process of evolution drives the diversity and unity of life.</p>	<ul style="list-style-type: none"> <li>• <b>Get outside</b>- find some organisms, and describe/document genetic variation within the population</li> <li>• <b>Be an artist</b>- Draw/paint and label some plant or animal adaptations that you observe in nature.</li> </ul>	<p><b>Read this book</b>-<a href="#">Your Inner Fish</a> (1st two chapters or all of it!)</p>	<p><a href="#">Your Inner Fish</a> PBS documentary (1 or 3 parts!)</p>	<p>RadioLab- <a href="#">The Good Show</a></p> <p>Science Friday- <a href="#">The Twists And Turns Of The Evolution Of Life On Earth</a></p>
<p>2. ENERGETICS</p> <p>Biological systems use energy and molecular building blocks to grow, reproduce, and maintain dynamic homeostasis.</p>	<p><b>Experiment</b>- Pick up some seeds from a garden store and see what you can grow. Choose an IV and conduct your own lab</p>		<p>TedTalk- <a href="#">Enzymes</a></p>	
<p>3. INFORMATION STORAGE AND TRANSMISSION</p> <p>Living systems store, retrieve, transmit, and respond to information essential to life processes.</p>	<p>Get outside and observe plants or animals responding to stimuli. Document your observations</p>	<p><b>Read this book</b>-<a href="#">The Blind Watchmaker</a></p> <p><b>Read this book</b>-<a href="#">The Selfish Gene</a></p> <p><b>Read this book</b>-<a href="#">The Immortal Life of Henrietta Lacks</a></p>	<p>TedTalk- <a href="#">rewriting DNA</a></p> <p>TedTalk- <a href="#">Sleep is your Super Power</a></p>	<p>Science Friday- <a href="#">Looking To The Genome To Track And Treat The New Coronavirus</a></p>

<p>4. SYSTEMS INTERACTIONS Biological systems interact, and these systems and their interactions exhibit complex properties.</p>	<p><i>Explore- <a href="#">Complete this scavenger hunt (or most of it!)</a></i></p> <p><i>Take up <b>Bird Watching</b> as a summer hobby and start your "<a href="#">Birding Life List</a>".</i></p> <p><i>Create an <b>art piece</b> about ecology- how organisms in your backyard are interacting with each other and the environment</i></p>	<p><i>Read this book- <a href="#">The Serengeti Rules</a>- check out from the library, not too expensive on Amazon, free on audible</i></p> <p><i>Read this book- <a href="#">A Walk in the Woods</a></i></p>	<p>TedTalk- <a href="#">How you can help save the Bees</a></p> <p>Our Planet Documentary - available on Netflix</p>	<p>Go outside and listen to animals communicating both within a species, and interspecies- document your observations</p> <p>Science Friday- <a href="#">How Humboldt Squid Talk To Each Other In The Dark</a></p>

In addition to the options above, you may want to spend time reviewing biology topics to prepare for the year. Khan Academy or YouTube are my favorite resources.

Feel free to reach out with any questions

Mr. Munsey  
andym@spokaneschools.org