

Biology and Biology Honors  
**Summer Reading Assignment 2019**

**Directions:** You must read TWO (2) articles from the following RFH LibGuide:

<http://rumsonfairhaven.libguides.com/content.php?pid=710149>

While reading each of the articles, be sure to carefully read and re-read each part. It is recommended that you print and highlight important points from each article to help improve your comprehension of the content. For each article you must complete the attached chart. All work must be typed, in complete sentences, paragraph form, and in your own words. You should have two separate charts completed at the start of school, one for each article. Do not combine your work into one chart.

All assignments must be typed, printed out, and turned in on the first day of class in hard-copy form. The assignment will ultimately be digitally submitted to [www.turnitin.com](http://www.turnitin.com) as well. The biology teachers will take their classes to the library during the first week of school so that students can sign up for their [turnitin.com](http://www.turnitin.com) accounts and upload their summer assignments by the designated due date (to be announced).

It is the intention that these readings and the information learned from them will be discussed and used throughout the year in learning different topics throughout Biology.

Happy reading!

*The article summary chart is located on the next page. You may re-create the chart in your own document or you may create a copy of this chart in google docs and type your responses directly into the spaces provided.*

*Responses must be in 12pt Times New Roman font. Be sure to thoroughly respond to all parts of the chart in your own words.*

*Below is an outline of the chart content:*

1. Heading: Provide your name, the date, and the article information.
2. Vocabulary: Define 10 new terms from the article in your own words.
3. Summary: Provide a summary of the article.
4. Human Relevance: Describe how the article is relevant to humans.
5. Unifying Principle: Relate the article to at least one of the unifying principles of Biology. They are:
  - **Evolution: Patterns and Products of Change in Living Systems** - This principle focuses on the foundation of biology: that all living systems are biologically connected with each other. We can understand these connections by studying the patterns of differences and similarities that indicate the biological relationships among organisms.
  - **Homeostasis: Maintenance of a Dynamic Equilibrium** - Living systems have mechanisms for adjusting to changes in their environment; this helps organisms stay alive. For example, when you run your heart speeds up and sends more oxygen to your cells. At some level, all organisms change in response to external stimuli such as pH or temperature.
  - **Energy, Matter, and Organization**- All living systems are organized on a number of levels including the atomic, organismal, and community levels. Maintaining the organization of matter at each level requires energy. For almost all living systems this energy comes from the sun - directly for some organisms and indirectly for others.
  - **Genetic Continuity and Reproduction**- All living systems produce more of themselves. It takes some form of reproduction to accomplish this, and as a result, living systems have a genetic connection through inheritance. You share genetic material with your blood relatives because of these processes.
  - **Growth, Development, and Differentiation**- Living systems grow and change through processes that are programmed into their cells and influenced by the environment. Environmental factors affect the patterns of growth and change of all organisms.
  - **Interaction and Interdependence**- Although all living systems have mechanisms for keeping themselves alive and maintaining continuity, there are also many interactions among living systems. For example, fish need to eat other organisms such as daphnia. When something happens to either organism, the daphnia and the fish both are affected. These interactions mean that ecological systems are dependent on each other.
6. Citations: Cite at least 2 sources that you used to help complete the chart. Citations should be in MLA format.

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**Summer Reading Assignment 2018**  
**Article #1**

Points	Question	Your Response
<b>BACKGROUND</b>		
5 points	<b>Headings:</b> <i>Provide your name, the title of the article, the date the article was written, the source of the article, and today's date.</i>	
10 points	<b>New Vocabulary:</b> <i>While reading the article, find 10 new vocabulary words and define each term in your own words.</i>	
<b>ARTICLE SUMMARY</b>		
5 points	<b>Summary of Article:</b> <i>Summarize the article in your own words. This should be at least 1-2 paragraphs.</i>	
5 points	<b>Human Relevance:</b> <i>Describe how the content of this article is relevant to human life. This should be at least 1-2 paragraphs.</i>	
5 points	<b>Unifying Principle:</b> <i>Describe how this article relates to at least one of the "unifying principles" of Biology (listed to the right). This should be at least 1 paragraph.</i>	<b>The Unifying Principles of Biology are:</b> (1) Evolution; (2) Homeostasis; (3) Energy, Matter, and Organization; (4) Genetic Continuity and Reproduction; (5) Growth, Development, and Differentiation; (6) Interaction and Interdependence
5 points	<b>Citations:</b> <i>To have completely thoroughly responded to the above questions, you must have sought out information from other sources. Cite the sources here, there must be at least 2.</i>	

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**Article #2**

Points	Question	Your Response
<b>BACKGROUND</b>		
5 points	<b>Headings:</b> <i>Provide your name, the title of the article, the date the article was written, the source of the article, and today's date.</i>	
10 points	<b>New Vocabulary:</b> <i>While reading the article, find 10 new vocabulary words and define each term in your own words.</i>	
<b>ARTICLE SUMMARY</b>		
5 points	<b>Summary of Article:</b> <i>Summarize the article in your own words. This should be at least 1-2 paragraphs.</i>	
5 points	<b>Human Relevance:</b> <i>Describe how the content of this article is relevant to human life. This should be at least 1-2 paragraphs.</i>	
5 points	<b>Unifying Principle:</b> <i>Describe how this article relates to at least one of the "unifying principles" of Biology (listed to the right). This should be at least 1 paragraph.</i>	<b>The Unifying Principles of Biology are:</b> (1) Evolution; (2) Homeostasis; (3) Energy, Matter, and Organization; (4) Genetic Continuity and Reproduction; (5) Growth, Development, and Differentiation; (6) Interaction and Interdependence
5 points	<b>Citations:</b> <i>To have completely thoroughly responded to the above questions, you must have sought out information from other sources. Cite the sources here, there must be at least 2.</i>	