

## At-Home Learning for Thursday, 3/19, to Friday, 4/3

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The weeks during which we are “sheltering-in-place” to slow the spread of the novel coronavirus are an opportunity for us to:

1. Focus on an area of “applied” science that is critical to human society in ways we often take for granted: the field of public health.
  2. Explore the biology leading our current circumstances and how it relates to what we have been learning about genetics, mutation, and evolution.
  3. Review content we covered earlier in the year
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The best way to stay on top of work for our class is to use what is posted in google classroom. The topics we will be covering are listed below. Links will be provided through google classroom as we progress through the schedule. Class “office hours” will be emailed and posted on google classroom. At the beginning of each session an invitation a video conference will be emailed/posted so you can join so that we can check in, go over content, and answer questions.

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Doing the work correctly and completely can have three important results:

- Improving your mastery (and grades) on previous skills and topics
  - Prepare you for the final exam currently scheduled for the end of May
  - Deepen your knowledge of areas of science that are more important to understand now than any other time in human history
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I.	Public Health	
	A. What is public health?	Thursday, 3/19
	B. Risk, and how to use a risk matrix	Thursday, 3/19
	C. Infectious diseases - How do we control them?	Thursday, 3/19
	D. Outbreak investigation - a step-by-step approach	Friday, 3/20
	E. The novel coronavirus and “flattening the curve”	Friday, 3/20
	F. Possible careers in public health	Friday, 3/20
II.	Genetics and Inheritance Review	
	A. Gene Expression	Monday, 3/23
	B. Meiosis and Sexual Reproduction	Tuesday, 3/24
	C. Mutation	Wednesday, 3/25
	D. Inheritance	Thursday, 3/26)
	E. Natural Selection	Friday, 3/27
III.	First Semester Review	
	A. Photosynthesis	Monday, 3/30
	B. Respiration	Monday, 3/30
	C. Biological Molecules	Tuesday, 3/31
	D. Water, Diffusion, and Osmosis	Tuesday, 3/31
	E. Cells	Wednesday, 4/1
	F. Mitosis	Thursday, 4/2
	G. Stem Cells and Differentiation	Thursday, 4/2
	H. Homeostasis	Friday, 4/3