**AP Biology ’19-20 Summer Assignment**

Textbook: **Campbell Biology in Focus AP Edition 1** ISBN 10:0-13-310217-3; ISBN 13: 987-0-13-310217-8

Khan Academy Videos (Official AP College Board Partner) https://www.khanacademy.org/science/biology/ap-biology

**Complete the following for Chapter 1-4 by the first day of class, Tuesday, August 13th, 2019:**

**Chapter 1 Introduction: Evolution & the Foundations of Biology pp. 1-17**

* Annotate the chapter; taking notes using a style of your choice
* Complete Ch 1 Scientific Skills Exercise (SSE) p15 Answers must be in complete sentences

**Chapter 2 The Chemical Context of Life pp.18-39**

* Annotate the chapter; taking notes using a style of your choice
* Complete Ch 2 SSE p 37 Answers must be in complete sentences

**Suggested but not due on the 1st day of class:**

Watch as many of the Khan Academy AP Biology lessons on  **Chemical Bonds & Reactions Lessons & Water Lessons**to help give clarification to Ch2

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|  | [Chemistry of Life](https://www.khanacademy.org/science/biology/ap-biology/ap-chemistry--of-life) |
|  | [Water, Acids & Bases](https://www.khanacademy.org/science/biology/ap-biology/ap-water-acids-and-bases) |

**Chapter 3 Carbon & the Molecular Diversity of Life pp 40-65**

* Annotate the chapter taking; notes using a style of your choice
* Complete Ch 3 SSE p 63 Answers must be in complete sentences

**Suggested but not due on the 1st day of class:**

Watch as many of the Khan Academy AP Biology lessons **on Carbon & Macromolecules.**

* There are 9 items (videos& documents) on the Properties of Carbon lessons.  I would suggest reviewing (Starting at the top of list as 1) #1, 3, 4, 8 & 9 to get clarification on Ch3.
* Of the Macromolecules lessons I would suggest the following:
  + Carbohydrates: ALL
  + Lipids: at least the first 2
  + DNA: only if you feel you have questions
  + Proteins: ALL

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|  | [Properties of Carbon](https://www.khanacademy.org/science/biology/ap-biology/ap-properties-of-carbon) |
|  | [Macromolecules](https://www.khanacademy.org/science/biology/ap-biology/ap-macromolecules) |

**Chapter 4 A Tour of the Cell pp 66-93**

* Annotate the chapter; taking notes using a style of your choice
* Complete Ch 4 SSE p 74 Answers must be in complete sentences

**Suggested but not due on the 1st day of class:**

Watch as many of the Khan Academy AP Biology lessons **on Structure of the Cell** (ALL 4 Lessons)

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|  | [Structure of Cell](https://www.khanacademy.org/science/biology/ap-biology/ap-structure-of-a-cell) |