

All Homework is due at the beginning of class on the first day. There's a lot of work, so don't put it off! Give yourself at least two weeks.

Textbook- *Life: The Science of Biology* (ISBN 978-0716776710 or 978-1429219624)

Chapters 25-27 & 30 (Due first day of class) **

1. Read and take outlined notes on all assigned chapters; include definitions of terms, section headings, and copy down any scientific processes. Pay attention to labeled pictures and diagrams. You may use your preferred method, but I suggest using the Cornell Notes Method:
http://www.clt.cornell.edu/campus/learn/LSC_Resources/cornellsystem.pdf
2. Answer all **Recap** questions within the chapters, all **Self-quiz**, **For Discussion**, and **For Investigation** questions at the end of the chapters. Check answers for accuracy and correct wrong answers in red ink.
3. Tests on these chapters will be given the first week of school. One missed test is dropped per semester, so there are no make-up tests.

Summer Science: Awesome Bio Books

Choose a biology-related book from the Connelly [Biology Booklist](#) or from the attached list. Read the book over the summer and write a 2-page, double spaced, 11-point Arial font report. We will talk about what we read and learned at the start of the semester. Please expand your minds and pick something that is interesting and that you have not read before. Many of these books have changed the world in dramatic fashion and most are best-sellers.

To find the [Biology Booklist](#), click the link and choose the "Search Lists" tab. Also, there is a list of books below. Remember: use the school password to log in to the Connelly card-catalog resources.

** AP classes are for young adults and appropriate levels of maturity are expected and demanded. If circumstances arise that preclude attendance to class the first day, email work to apittman@connellyhs.org before the due date for credit, else no credit will be given. Have an enlightening summer!

Biology Booklist

In the Shadow of Man - Jane Goodall (Ecology / Animal Behavior)

On the Origin of Species by Means of Natural Selection - Charles Darwin (Evolution)

The Descent of Man - Darwin (Evolution)

Struggle for Existence - Darwin (Evolution)

Species and Variety, Their Origin by Mutation - DeVries (Botany / Evolution)

The Physical Basis of Heredity - Morgan (Genetics)

The Genetical Theory of Natural Selection - Fisher (Evolution / Genetics)

Mendelism - R.A. Punnett (Genetics)

Guns, Germs, and Steel - Diamond (Evolution / Microbiology / Ecology)

On Combat, The Psychology and Physiology of Deadly Conflict in War and in Peace - Grossman (Evolution / Physiology / Behavior)

The Double Helix - James Watson (DNA)

Why We Get Sick: The New Science of Darwinian Medicine - Nesse & Williams (Evolution / Medicine / Immunology)

Why Big Fierce Animals Are Rare - Colinvaux (Behavior / Genetics)

Stem Cell Now - Scott (Microbiology / Medicine)

The Female Brain - Brizendine (Behavior / Physiology)

How We Die: Reflections on Life's Final Chapter - Nuland (Physiology / Microbiology)

Autism's False Prophets: Bad Science, Risky Medicine, and the Search for a Cure - Offit (Medicine / Scientific Method)

The Selfish Gene - Dawkins (DNA / Evolution)

Silent Spring - Carson (Ecology / Chemistry)

Just in the Middle - Gould (Evolution)

Punctuated Equilibrium - Gould (Evolution)

The Reluctant Mr. Darwin - Quammen (Historical / Evolution)

Proust Was a Neuroscientist - Lehrer (Physiology / Behavior)

The Ants - Holldobler and Wilson (Animals)

The Super-Organism - Holldobler and Wilson (Animals)

The Hot Zone - Preston (Immunology)

The Making of the Fittest - Carroll (Behavior / Evolution)

How to Build a Dinosaur: Extinction Doesn't Have to Be Forever - Horner
(Physiology / Evolution / DNA)

Unknown Quantity - Derbyshire (Mathematics / History / Physics)

The Golden Ratio - Livio (Mathematics / Art / History)

How to Survive on Mars - Zubrin (Astrobiology)