

AP BIOLOGY
GENE TO PROTEIN UNIT
LEARNING SEQUENCE

Review:

Unit Test: TBD (Recuperation will only be available IF you have all items in the sequence complete BEFORE the test date).

Readings and Resources:

1. Read Chapter 13, take notes. Turn in on Classroom (TIOC)
2. Read Chapter 14 - Mostly Review - Take Notes (TIOC)
3. [NPR Article to Check Out](#)
 - a. [If you're interested, this was the outcome.](#)
4. [Crisper Article - We're living in the future people!](#)
5. [Wait...a pig heart....what about rejection?](#)
 - a. Quick read, think back to the immune system, what would need to be altered in order for the body to accept a porcine organ? What would happen if it was unaltered and which cells would be responsible?
6. [DNA: The Secret of Life](#) - If you haven't watched this you might want to!

Timing to be determined by you

Individual (Started as) Class Work:

1. [Watson and Crick Website Introduction](#). Turn in on Paper (TIOP)
 - a. [Paper Sheet to Turn In!](#)
2. Polished [HC or AMM Website Construction](#) (Due Monday 2/5 Share Link, turn in on Classroom (TIOC))
3. Watch
 - a. [Protein Synthesis](#) - Take Notes
 - b. [Protein Synthesis lecture video](#). It's me, hi.
 - i. [PPT](#)
4. Complete online [Protein Synthesis Race](#). Google Classroom
 - a. Prove with screenshots. TIOC.
 - b. Prizes for 1st, 2nd, and 3rd fastest times.
5. Watch [Mutations lecture video](#). take notes. TIOC Me again....
 - a. [PPT](#)
6. Complete [Mutations Activity](#) (posted in classroom). TIOC. This can be done on paper if you want, but then scan it and upload it to the classroom for submission. Google Classroom
 - a. Don't attempt until you truly understand protein synthesis and have read about different types of mutations.
 - b. Doing this online with the aid of "Align" is going to make your life a lot easier.....
7. [DNA Technologies Exploration](#) - Turn in on classroom
8. [Restriction Enzymes and You: An Exploration.....](#)

In Class/Group Work

1. Complete worksheet for your partner's website. Get them a copy and turn one in on Classroom. **BY...**
Final draft due to me _____ after peer edit revision.
 - a. [AMM Worksheet](#)
 - b. [HC Worksheet](#)

2. Lab Synopsis:

- a. [Dyephoresis](#) - Practice but add it to LNB
 - i. [Dyephoresis Questions](#) - LNB
- b. Product for Electrophoresis - TBD **LNB and Full Lab synopsis due,**
- c. **Focus Question**
 - i. **Do different restriction enzymes really digest DNA differently?**

PA:

Gene to Protein PA - Paper Based

AAA:

Unit Test

AMM HC Website

Restriction Enzyme Lab Synopsis (Due Date to be determined)

