

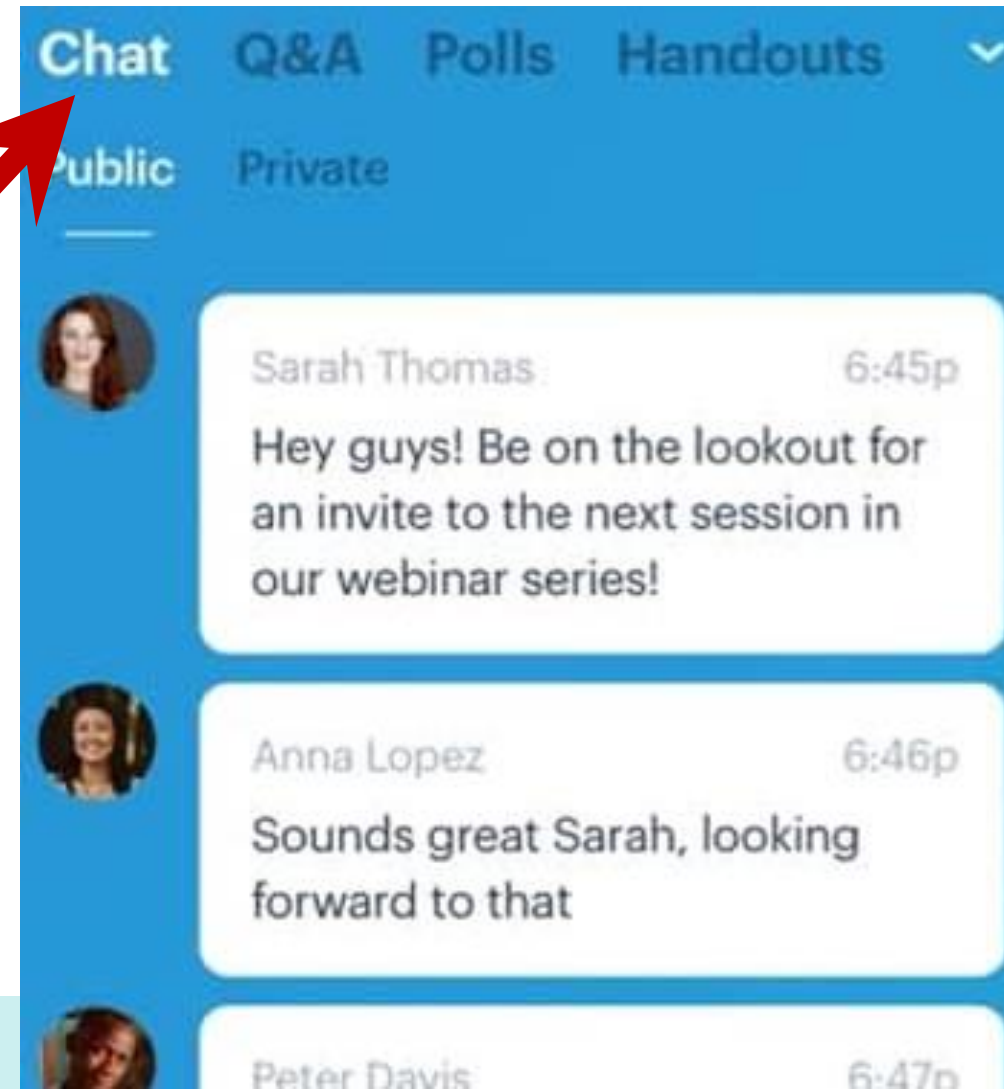


AP(R) Jumpstart Biology - Kickoff

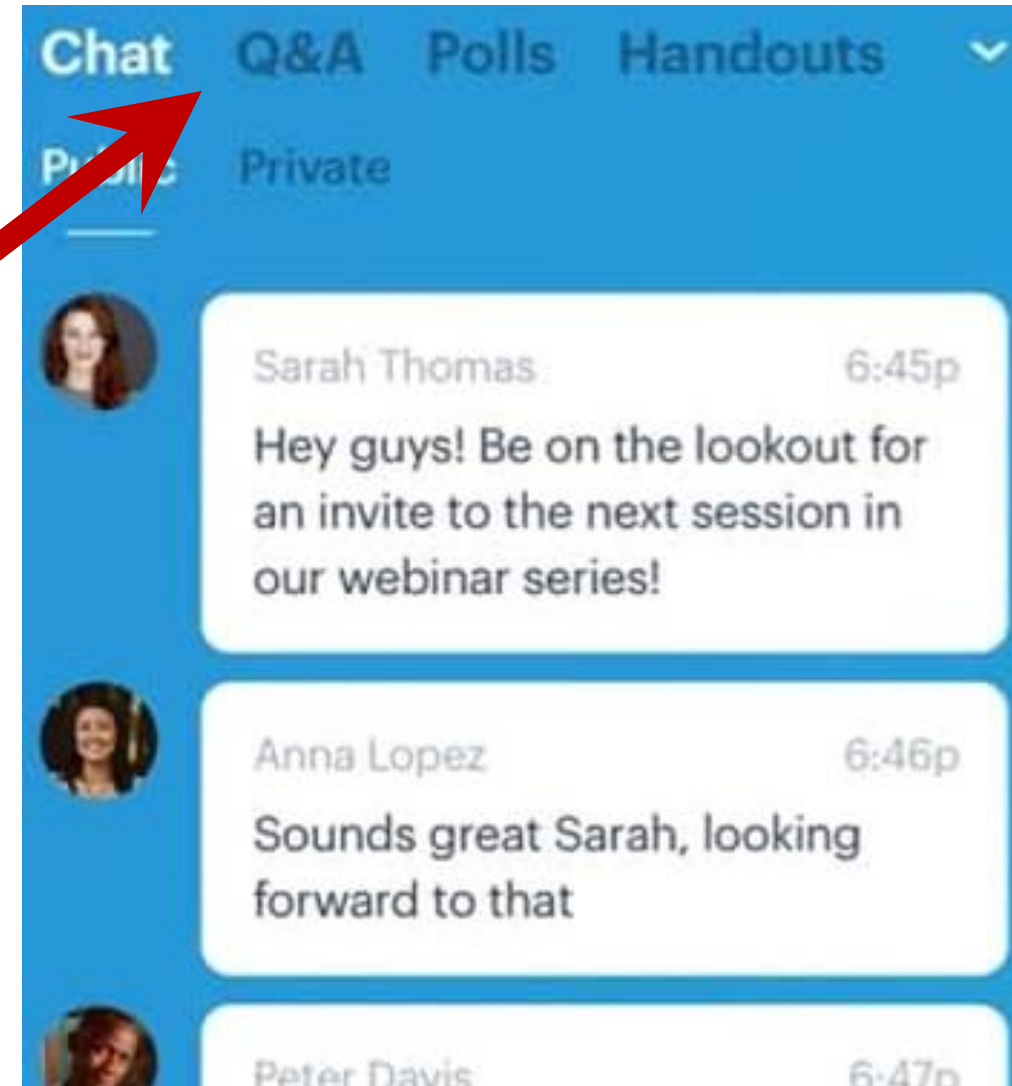
with Tiffany Jones (AP Bio Penguins)



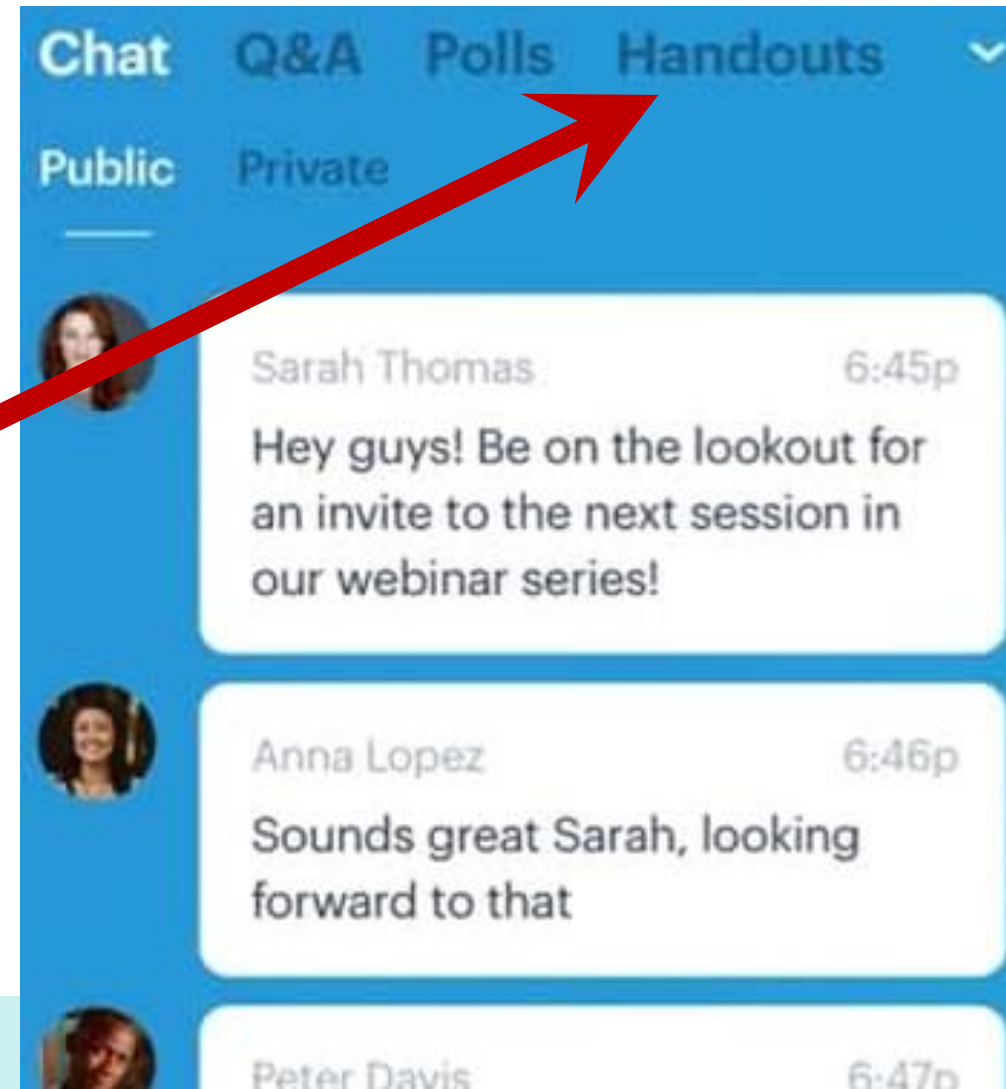
Don't be shy! Talk
to us in the **Chat**
section



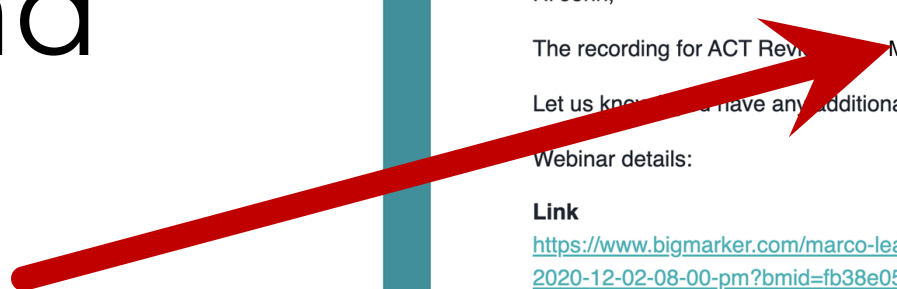
Post your questions in the **Q&A Section** and upvote your favorite questions.



Download your handouts and links in the **Handouts** tab.



All sessions
**will be
recorded** and
sent to you
via email.



Recording Available

APUSH FRQ REVIEW: March 26, 2022

WATCH THE RECORDING

Hi John,

The recording for ACT Review: APUSH FRQ REVIEW: March 26, at 2 PM ET is now available to watch.

Let us know if you have any additional questions!

Webinar details:

Link
<https://www.bigmarker.com/marco-learning/2020-12-02-08-00-pm?bmid=fb38e05dc501>

About

WATCH THE RECORDING

Welcome – Who Are You?

Mrs. Tiffany Jones

- 12 years of AP Biology
- Georgia
- AP Reader
- B.S. in Biology
- Ed.S. in Instructional Tech
- Creator of AP Bio Penguins



AP Biology students are
penguins because they
are Dressed for Success!

You are now an
AP Bio Penguin!



Exam Format

Section 1: Multiple Choice

Time:

90 minutes

Contents:

60 MCQs

Worth:

50% of total points

Section 2: Free Response

Time:

90 minutes

Contents:

2 Long FRQs & 4 Short FRQs

Worth:

50% of total points

46 / 120
38.3%

Based on the 2020 Practice Exam Scoring Guidelines

You need approximately 46
of the available 120 points for
a 3 on the exam



AP Exam Topic Breakdown

Units of Study	Exam Weighing	#Qs (2020)
Unit 1: Chemistry of Life	8 – 11%	5 – 7 (5.7)
Unit 2: Cell Structure and Function	10 – 13%	6 – 8 (6.7)
Unit 3: Cellular Energetics	12 – 18%	7 – 10 (9.3)
Unit 4: Cell Communication and Cell Cycle	10 – 15%	6 – 9 (6.7)

AP Exam Topic Breakdown

Units of Study	Exam Weighing	#Qs (2020)
Unit 5: Heredity	8 – 11%	5 – 7 (6)
Unit 6: Gene Expression and Regulation	12 – 16%	7 – 10 (8)
Unit 7: Natural Selection	13 – 20%	8 – 12 (9.3)
Unit 8: Ecology	10 – 15%	6 – 9 (8.3)

AP Bio Penguins

351 page Review Guide

120+ Quizizz Games

Topic/CED TikTok Videos

Review PowerPoints

Unit Review Videos

FRQ Fridays

@apbiopenguins (IG, TT, YT)

apbiopenguins.weebly.com



Mark your Calendars for
Feb 1 DAILY review on IG

Helpful Resources



The APsolute RecAP

82 episodes (FREE) on any platform that offers podcasts

Guided listening sheets developed with podcast

theapsoluterecap.com

Helpful Resources



Bozeman
Biology

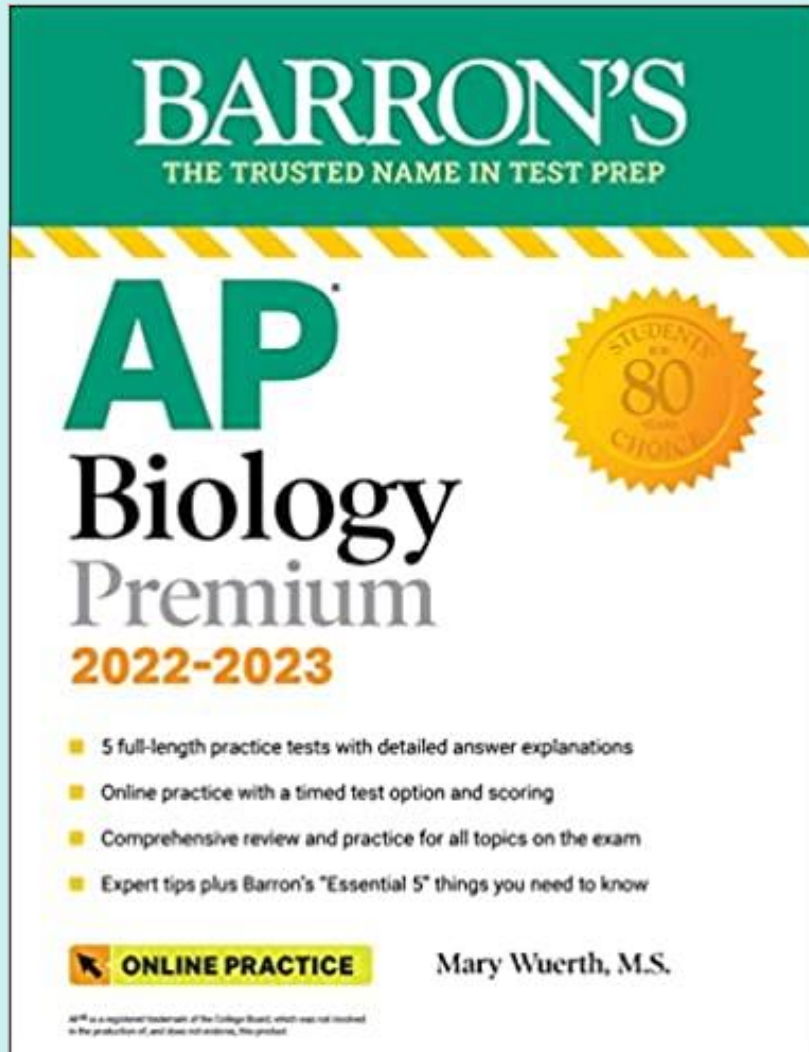


Crash
Course



Ameoba
Sisters

Helpful Resources



Barron's Review Book

Section Reviews
Section Quizzes
Practice Exams with
Explanations

Other Books:
Princeton Review
5 Steps to a 5
Pearson (Holtzclaw)

Unit 1: Chemistry of Life

Water Properties & Biochemistry

Hydrogen Bonds

Proteins

Lipids

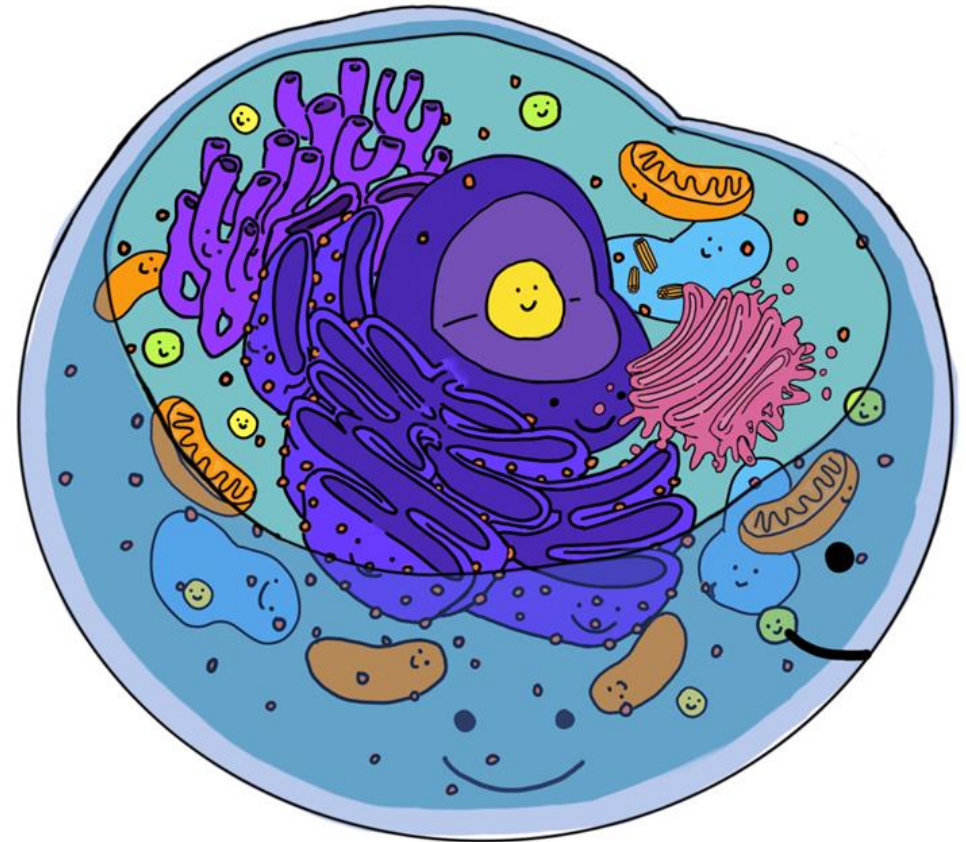
Nucleic Acids

Carbohydrates



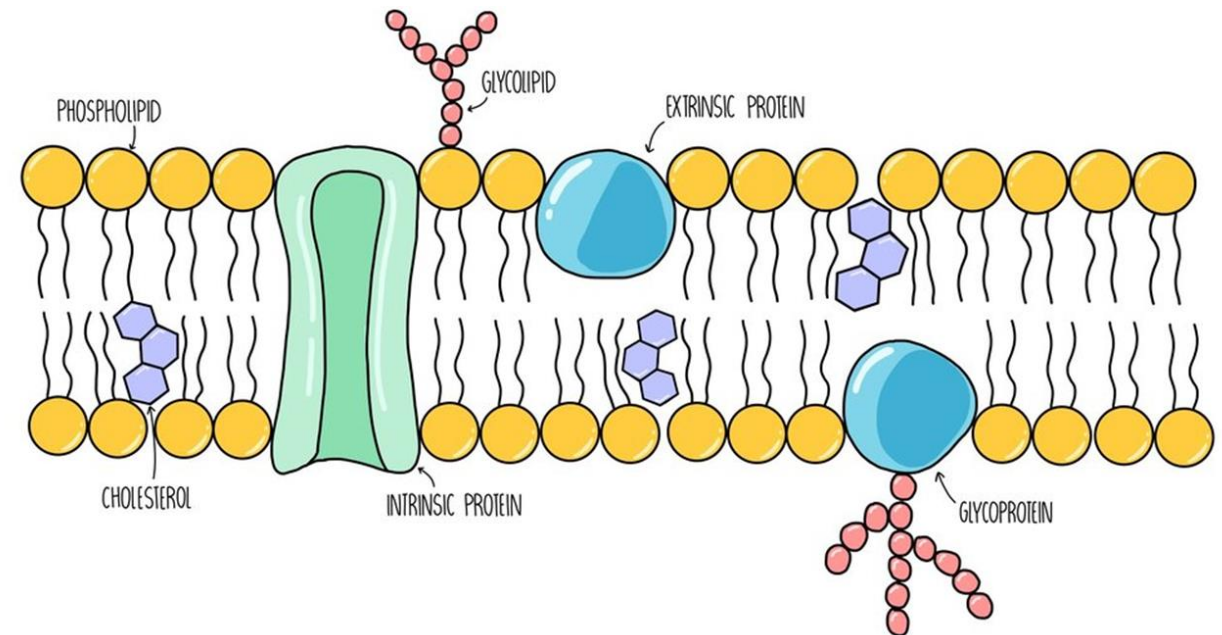
Organelles & Membrane Transport

Cell Organelles
Plasma Membrane
Osmosis
Passive Transport
Active Transport



Organelles & Membrane Transport

Cell Organelles
Plasma Membrane
Osmosis
Passive Transport
Active Transport



Unit 3: Cellular Energetics

Don't get stuck on the minor details...

What goes in?
What comes out?
Where does it take place?
Why is it important?

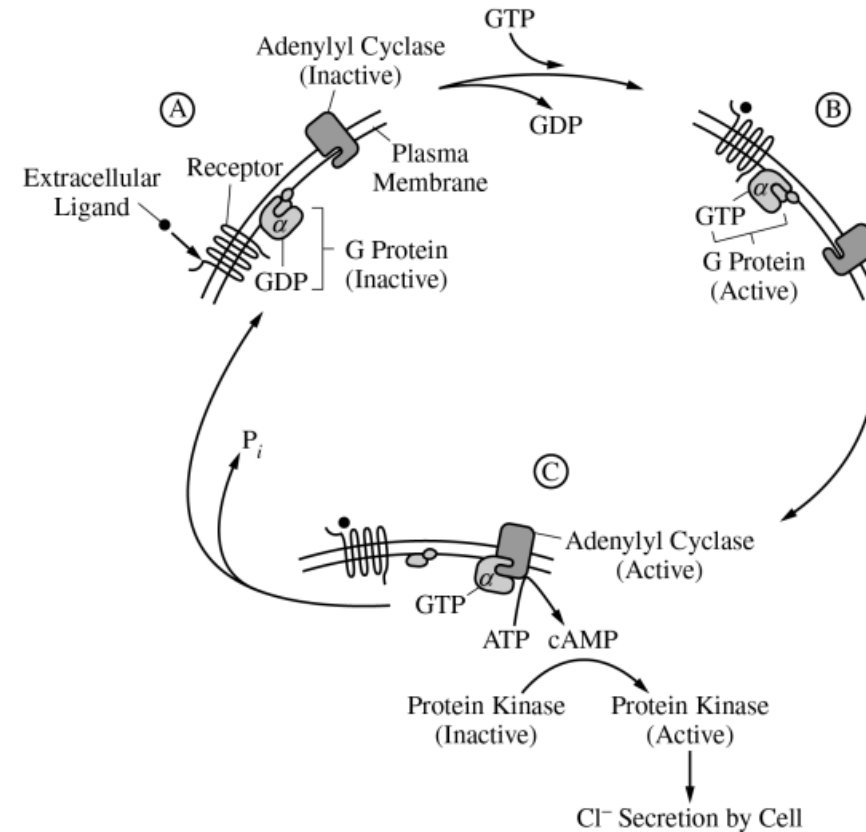


Enzymes & Energy

Proteins/Enzymes
Cellular Respiration
Photosynthesis

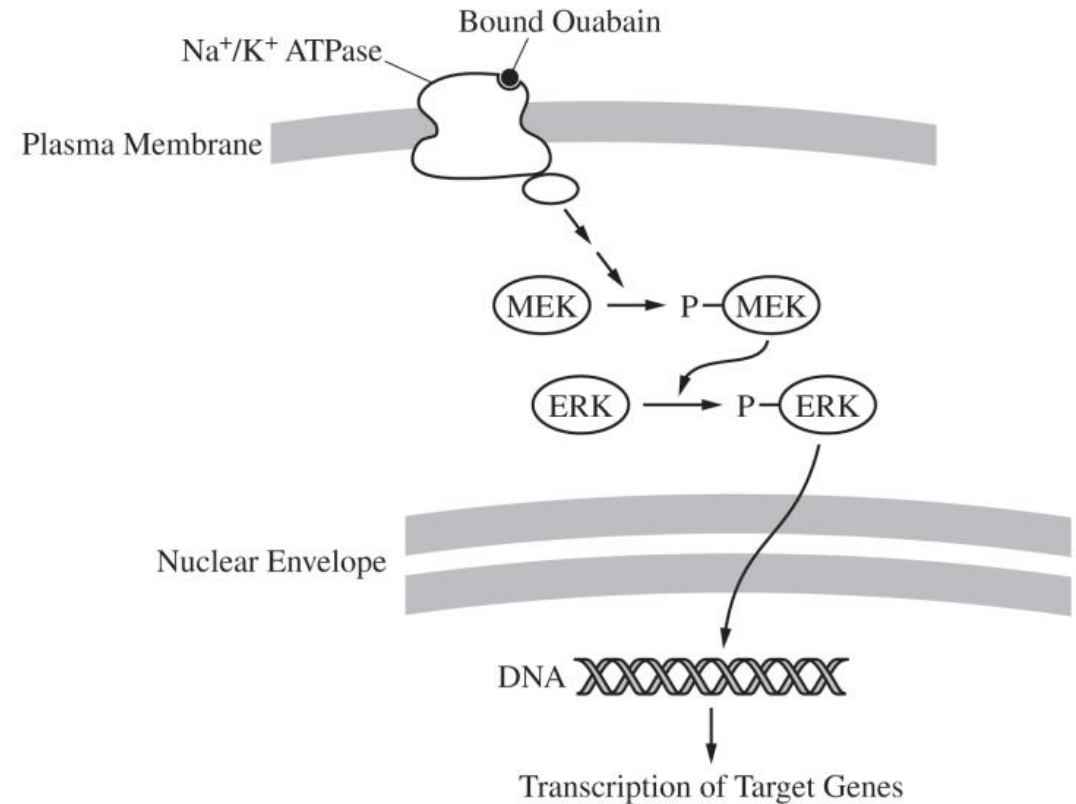
Signal Transduction & Mitosis

Reception
Transduction
Response
Checkpoints
Interphase
Mitosis
Cytokinesis



Signal Transduction & Mitosis

Reception
Transduction
Response
Checkpoints
Interphase
Mitosis
Cytokinesis



Meiosis & Genetics

Meiosis
Comparison w/ Mitosis
Mendelian Genetics
Non-Mendelian Genetics

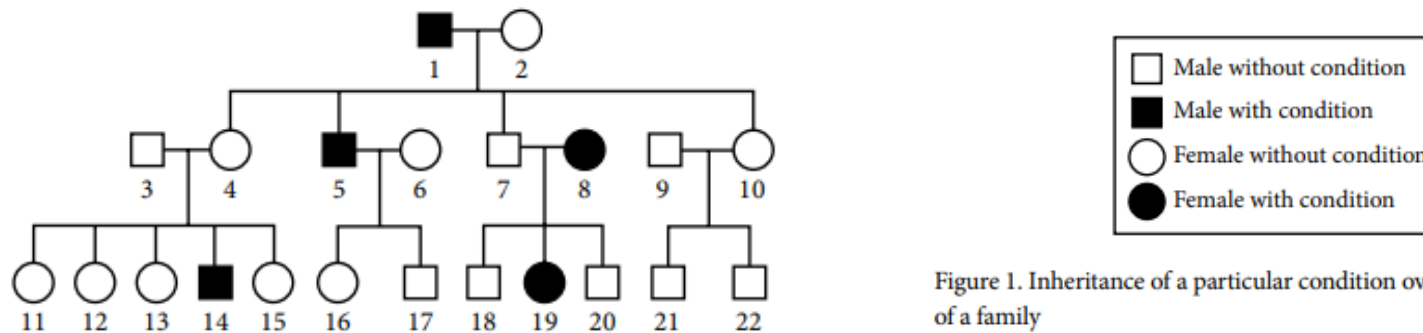
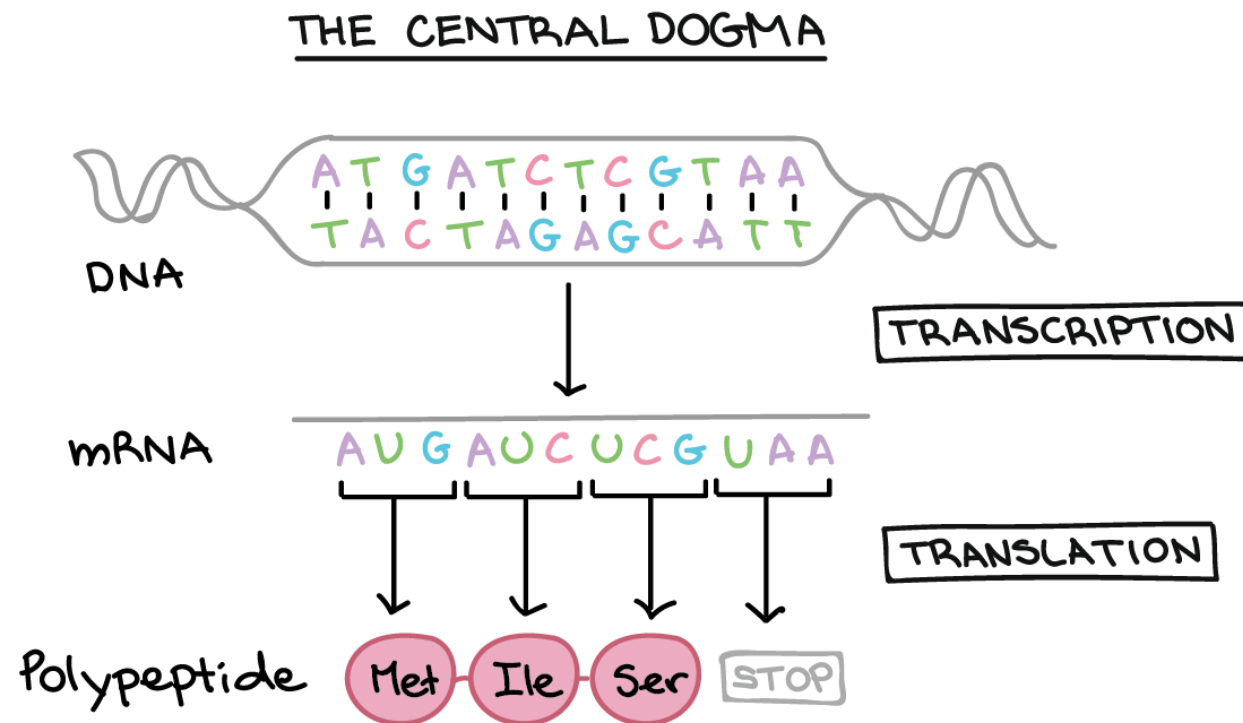


Figure 1. Inheritance of a particular condition over three generations of a family



Molecular Genetics



DNA vs. RNA
Replication
Transcription
Translation
Mutations
BioTechnology

Molecular Genetics



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C U C G U A A

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Did you just say central DOG-ma?

ION

TRANSLATION

DNA vs. RNA
Replication
Transcription
Translation
Mutations
BioTechnology

Unit 7: Natural Selection



Evolution Selection Hardy-Weinberg Phylogeny Evidence of Evolution

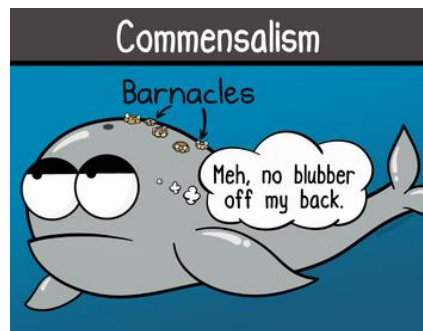
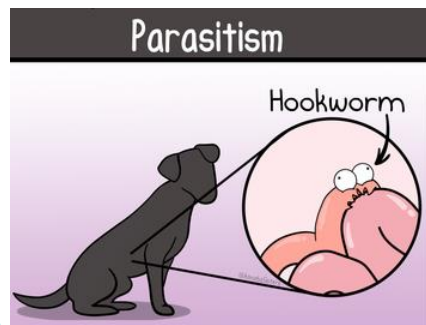
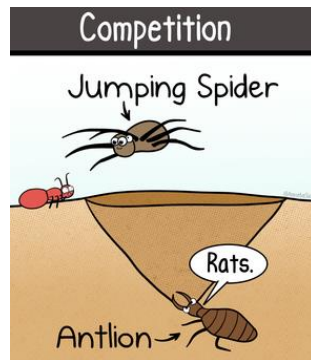
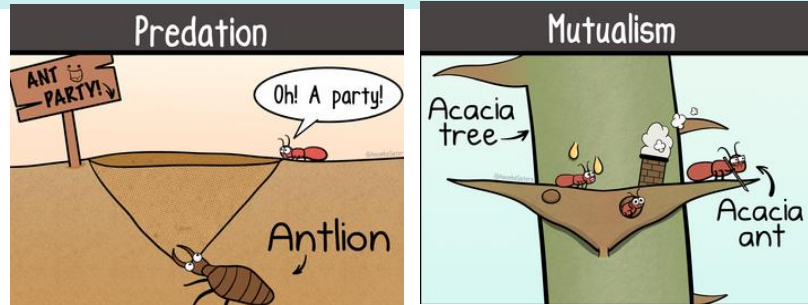
frequency of
homozygous dominant
genotype

frequency of
homozygous recessive
genotype

$$p^2 + 2pq + q^2 = 1$$

frequency of
heterozygous
genotype

Unit 8: Ecology



Ecology

Energy Flow
Population Ecology
Community Ecology

I did this over the summer as my summer assignment



Tips and Tricks

Read your Textbook
(before or after class)

Complete Practice Content Qs

AP Classroom
Quiz Websites (Quizizz,
Quizlet, Kahoot, etc)

Study weaknesses

Complete Practice Free
Response Qs (FRQs) on AP
Central

Ask Qs in class

Form Study Group

Complete Homework on Time

Growth Mindset

Contact Us

Website

marcolearning.com/contact/

Social



@marcolearningap



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Marco Learning



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Don't forget
about:
apbiopenguins

