

Academic and Physics at Work Resources:

Review and Enrichment materials

Why is our solar system flat? <https://www.youtube.com/watch?v=tmNXXqeUtJM>

Shock waves from bullets <https://www.youtube.com/watch?v=BPwdIEgLn5Q>

Cool pulleys <https://www.youtube.com/watch?v=M2w3NZzPwOM>

Forces on golf balls <https://www.youtube.com/watch?v=JT0wx27J9xs>

How engines work <https://www.youtube.com/watch?v=xflY5uS-nnw>

Which way is down? <https://youtu.be/Xc4xYacTu-E>

Science simulations (interactive) <https://phet.colorado.edu/>

Various science topics <https://www.edutopia.org/>

You tube channels you can examine: Veritasium, VSauce, SmarterEveryDay, Minute Physics

Academic Physics Project - See Sapphire Classroom Resources for Materials for Video Project / Review of Concepts.

Anatomy and Physiology Resources:

Online Labs, especially #7 -

http://www.phschool.com/science/biology_place/labbench/lab7/concepts.html

Swine Review & College Study Tool -

<https://www.whitman.edu/academics/departments-and-programs/biology/virtual-pig>

Feline Review - <https://homes.bio.psu.edu/faculty/strauss/anatomy/musc/legmedlow.htm>

<https://www.biologycorner.com/anatomy/index.html> - Chapter 8 is optional

<https://www.carolina.com/resources/home.jsp>

AP Biology Resources:

Packet: [/userfiles/50/my files/ap biology units 1-6 topics 19-20 exam.docx?id=1379](/userfiles/50/my%20files/ap%20biology%20units%201-6%20topics%2019-20%20exam.docx?id=1379)

<https://www.youtube.com/playlist?list=PLoGgviqq4847VchRdUdvbDPzsp9ResrjD>

[/userfiles/50/my files/ap biology 2020 equation and formula sheet.pdf?id=1393](/userfiles/50/my%20files/ap%20biology%202020%20equation%20and%20formula%20sheet.pdf?id=1393)

[/userfiles/50/my files/apbiostudy guide.docx?id=1394](/userfiles/50/my%20files/ap%20biostudy%20guide.docx?id=1394)

<https://www.carolina.com/resources/home.jsp>

AP Chemistry Resources:

AP Online Classes and Review Sessions - <https://www.youtube.com/user/advancedplacement>

AP Physics Resources:

Practice AP exam material - <https://apclassroom.collegeboard.org/>

Review materials videos from CollegeBoard:

<https://www.youtube.com/watch?v=CZV2x1c9Aq8>

<https://www.youtube.com/watch?v=VX8SeUXCUbk>

<https://www.youtube.com/watch?v=ixsIR0yKytA>

<https://www.youtube.com/watch?v=c1EX4KOBbIc>

<https://www.youtube.com/watch?v=srCMQyhZrC0>

Aquaponics Resources:

<https://agexplorer.com/virtual-field-trip>

<https://www.arborday.org/trees/whattree/>

Biology Resources:

<https://www.biomanbio.com>

<http://www.biology4kids.com/>

<https://www.khanacademy.org/science/high-school-biology>

Biology Tip Sheet: [/userfiles/50/my files/biology tip sheet.docx?id=1338](/userfiles/50/my%20files/biology%20tip%20sheet.docx?id=1338)

Biology Keystone Exam Information:

The following document provides general information about the Keystone Biology Exam. - [Biology Keystone Exam General Information](#)

Test Prep and Practice

[Biology Exam Review](#)

[Biology Review Guide](#)

[Biology Big Ideas](#)

[Homeostasis and Transport](#)

Specific Anchor Review Packets

Biology Module 1 PowerPoint

Biology Module 1 Practice Test

Biology Module 2 PowerPoint

Biology Module 2 Practice Test

Assessment Anchors and Eligible Content with Sample Questions

Additional Resources

The following document includes useful websites and web-based tools to help assist students prepare for the Biology Keystone Exam - [Biology Digital Resources](#)

<https://www.carolina.com/resources/home.jsp>

Chemistry Resources:

Tutorial Videos on various chapters we have covered in general chemistry (Stop before Gases and KMT) - <https://www.khanacademy.org/science/chemistry>

Kahoot Reviews:

Matter and Math -

https://kahoot.it/challenge/0644198?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496359099 CODE 0644198

Atomic Theory -

https://kahoot.it/challenge/0942304?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496466647 CODE 0942304

Arrangement of Electrons in Atoms -

https://kahoot.it/challenge/048929?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496544569 CODE 048929

Names and Formulas -

https://kahoot.it/challenge/0898106?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496754490 CODE 0898106

Bonding -

https://kahoot.it/challenge/0354010?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496816918 CODE 0354010

Reactions -

https://kahoot.it/challenge/0733970?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496878421 CODE 0733970

Stoichiometry -

https://kahoot.it/challenge/037298?challenge-id=d09c9672-5431-4e50-a254-ecdc4a4b66b5_1585496976187 CODE 037298

Stoichiometry Review (Krupa)-

Watch first - <https://www.youtube.com/watch?v=nZOVr8EMwRU>

Watch second - https://www.youtube.com/watch?v=Mlu_v8rE1TY

Ch. 9 Study Guide (Krupa) - </userfiles/50/my files/chemistry ch 9 study guide-krupa.docx?id=1419>

Review (Krupa) - </userfiles/50/my files/limiting reactant homework-krupa.docx?id=1420>

Forensic Science Resources:

<https://writersforensicsblog.wordpress.com/>

<https://www.fbi.gov/>

<https://www.forensicmag.com/>

<https://www.forensicsciencetechnician.org/>

Integrated Science Resources:

Cell Transport Review - <https://www.youtube.com/watch?v=dPKvHrD1eS4>

Cell Transport Documents -

https://www.dvUSD.org/cms/lib011/AZ01901092/Centricity/Domain/3845/transport_in_cells_b1y_vm2.pdf

Review - </userfiles/50/my files/integratedsciencech 8 no.tes.pptx?id=1421>

Review - </userfiles/50/my files/integratedsciencepassive transport homework.docx?id=1422>

<https://www.carolina.com/resources/home.jsp>

Principles of Chemistry Resources:

Chemistry Life Hacks-

Watch first - <https://www.youtube.com/watch?v=mAqJmEjCy4E>

Watch second - https://www.youtube.com/watch?v=ReGfd_s9gXA

Watch Third - <https://www.youtube.com/watch?v=85diRmuk-ow>

<https://www.carolina.com/resources/home.jsp>

Organic Chemistry Resources:

Naming Organic Molecules -

<https://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Questions/Nomencl/nomencl.htm>

Tutorial Videos on naming and reacting different functional groups for organic molecules (Stop at Aldehyde and Ketones) - <https://www.khanacademy.org/science/organic-chemistry>

Practice problems for various units in organic chemistry - <https://chemhelper.com/practicetests.html>

Science-Grade 9 Resources:

<https://www.flinnsci.com/athomescience/at-home-activities/>

<https://www.penfield.edu/webpages/tabraham/resources.cfm?subpage=88309>

<https://www.youtube.com/user/bozemanbiology>

<https://wideopenschool.org/programs/educator/6-12/science/>

<https://www.khanacademy.org/science>

<https://www.carolina.com/resources/home.jsp>