

SCIENCE LEARNING CENTER

Math Pavilion Room MP 144

HOURS of OPERATION

MONDAY	9:00 AM – 2:00 PM
TUESDAY	2:00 PM – 6:00 PM
WEDNESDAY	9:00 AM – 2:00 PM
THURSDAY	2:00 AM – 6:00 PM
FRIDAY	11:00 AM – 3:00 PM
SATURDAY	11:00 AM – 3:00 PM
SUNDAY	CLOSED

Principles of Biology I BIOL 150 Videos

The Science Learning Center (SLC) has a collection of videos that have proven to be a helpful learning supplement for general biology students. .

- 1) Enter the SLC and sign in on the computer located by the front door.
- 2) At one of the computers in the Science Learning Center choose Science Learning Center website icon.
- 3) On the left menu choose BIOL 150 Videos
- 4) **Select the links under the chapter topic. All Links must be completed under that chapter.**
- 5) Food is not permitted in the SLC.

Introduction to Life Science (18:24) Chapter 1

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=33834>

What are Atoms made of? (27:15) Ch 2

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=41109>

Macromolecules: Chapter 5

(30:00 min – 34:00)

<http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=41393&loid=236525>

(15:19) <http://www.bozemanscience.com/042-biological-molecules>

Inside Cells: Cells and Their Organelles (28:17) Chapter 6

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=30838>

Keeping It Together: Cell Membranes (32:22) Chapter 7

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=30837>

Enzymes (23: 0 total) Chapter 8

Enzymes: (1:07) <https://www.youtube.com/watch?v=PILzvT3spCQ>

Factors affecting enzymes: (2:48) <https://www.youtube.com/watch?v=D2j2KGwJXJc>

Enzyme Inhibitors: (1:07) <https://www.youtube.com/watch?v=PILzvT3spCQ>

Enzyme, Structure and Function:(17:58) <https://www.youtube.com/watch?v=VZknZiKliFU>

The Role of Enzymes (28:15) Chapter 8

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=41106>

Cell Respiration (26:53 total) Chapter 9

Cell Respiration:(14:13) <http://www.bozemanscience.com/cellular-respiration/>

Overview of Cell respiration: (2:58) <https://www.youtube.com/watch?v=PbSrNqYcJe4>

Glycolysis: (1:21) <https://www.youtube.com/watch?v=3GTjQTqUuOw>

Citric Acid Cycle (0:44) <https://www.youtube.com/watch?v=hw5nWB0xNOY>

Electron Transport Chain (3:50) <https://www.youtube.com/watch?v=xbJ0nbzt5Kw>

ATP synthase and H ion gradient (3:47) <https://www.youtube.com/watch?v=3y1dO4nNaKY>

Cell Metabolism and Respiration (22:47) Chapter 9 & Photosynthesis (12:16) Ch 10

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=55130>

<http://www.bozemanscience.com/photosynthesis/>

Ch 10 Light Reactions (1:31)

https://www.youtube.com/watch?v=BK_cjd6Evcw

Cell Division and Growth (& Meiosis) (23:21) Chapter 12 & 13

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=55131>

Mitosis animation (1:29) <https://www.youtube.com/watch?v=VIN7K1-9QB0>

Meiosis animation (1:48) https://www.youtube.com/watch?v=D1_-mQS_FZ0

Peas in a Pod (28:56) Chapter 14

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=36223>

Mendel and the Gene Splicers (19:15) Chapter 14, GMO Labs & Chapter 20

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=43675>

The Theory of Inheritance (26:39) Chapter 14 & Chapter 1

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=3346>

Genetic Engineering, Part 1 & 2: How DNA Works (16:04 & 14:23) Chapter 16, 17 & 20

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=11731>

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=11732>

DNA Replication animation (1:35) <https://www.youtube.com/watch?v=TEQMeP9GG6M>

Transcription: (2:50) <https://www.youtube.com/watch?v=WsofH466lqk>

RNA processing (2:31) <https://www.youtube.com/watch?v=YjWuVrzvZYA>

Splicing (2:56) https://www.youtube.com/watch?v=FVuAwBGw_pQ

Translation: (3:32) <https://www.youtube.com/watch?v=5bLEDd-PSTQ&feature=related>

Genetic Engineering, Part 3 (21:33) Chapter 20

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=11733>

PCR (4:37) https://www.youtube.com/watch?v=_YgXcJ4n-kQ

Stem Cells and Cellular Differentiation (22:16) Chapter 20

<https://montgomerycollege.idm.oclc.org/login?url=http://fod.infobase.com/PortalPlaylists.aspx?wID=16705&xtid=55132>