



## Unit 2:

### A. Chapter: 2 *The Chemistry of Life*

Pages: 34 – 59

### B. Objectives: CCO: 2

- Explain and understand that the arrangements of the subatomic particles can affect the chemical reactions within organisms.
- Understand how water, needed substances and macromolecules affect the workings of a cell.
- Differentiate between solutions and suspensions.
- Distinguish how acids, bases, chemical reactions and energy changes affect covalent and ionic bonds.

### A. Chapter: 7 *Cell Structure and Function*

Pages: 168 – 199

Appendix D 1070 - 1071

### B. Objectives: CCO: 2

- Identify structural make-up of cells and differentiate between plant and animal, prokaryote and eukaryote cells.
- Determine location, function and structure of cellular organelles.
- Demonstrate the processes of diffusion, osmosis, passive and active transport.

## Unit 3:

### A. Chapter: 8 *Photosynthesis*

Pages: 200 – 219

### B. Objectives: CCO: 2

- Identify structural make of cells and their functions.
- Determine factors that affect the processes of photosynthesis.

## Unit 4:

### A. Chapter: 9 *Cellular Respiration*

Pages: 220 - 239

### B. Objectives: CCO: 2

- Determine factors that affect the processes of cellular respiration.
- Compare and contrast cellular respiration and photosynthesis.

## Unit 5:

### A. Chapter: 12 *DNA and RNA*

Pages: 286 - 317

### B. Objectives: CCO: 2

- Identify different scientist roles in the discovery of DNA.
- Explain what happens in DNA replication.
- Explain how a protein is made.



### Class Rules:

1. Be in the room when the bell starts to ring.
2. Have all necessary materials at the beginning of class.
3. Follow all instructions, as given, the first time.
4. Respect all people and property in the room.
5. NO food in the classroom.
6. **NO electronic devices of any kind (other than calculators) are to be used in the classroom.**

### Consequences :

First offense: Warning  
Second offense: Phone call home  
Third offense: After school detention or office referral  
\* Any behavior that overtly disrespects the teacher or another student will be followed by immediate removal from class and an office referral.

### Class Procedures:

1. Class starts upon entry into the room and ends by the teacher, not by the bell.
2. Any time your are absent, it is *the responsibility of the student to get from the teacher any work that was missed* and to complete it in a reasonable amount of time. **Homework is also posted on my website <http://mdavenport.net> .**
3. Hall passes are for emergencies only.
4. Students are expected to read the chapters in their textbook as they are being covered in the class. Success in this class comes from participating in a variety of activities including reading the textbook, listening in class, participating in discussions, labs, and doing homework to the best of your ability.
5. Work is expected to be turned in on time (the day it is due). Work that is turned in late will receive half credit. Only an excused absence from class will result in late work being accepted for full credit. If you are absent, it is your responsibility to give me **ON THE DAY YOU RETURN** any work that was due during your absence.

**Please take this home and review it with your parents. The last page is to be signed by you and a parent and returned to me by this Friday, August 19.**

PARENT SIGNATURE SHEET

STUDENT NAME (printed): \_\_\_\_\_

PERIOD: \_\_\_\_\_

**I have read the packet and I understand and agree with all information contained within.**

STUDENT SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

**Parent and/or student questions or comments:**

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**I have reviewed this packet with my son/daughter and I understand all of the policies that are contained within.**

PARENT SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_