

# Day 5 - Biology - 8-20-24 to 8-21-24

## CLASSWORK – Chemistry of Life

Online textbook:

<https://openstax.org/books/biology-2e/pages/2-introduction>

Periodic Table of the Elements

Color Code

- Metal (Yellow)
- Metalloid (Purple)
- Nonmetal (Green)
- Solid (White)
- Liquid (Blue)
- Gas (Light Blue)

Atomic number: 1  
Symbol: H  
Atomic mass: 1.008  
Name: hydrogen

|                | Bond type             | Molecular shape | Molecular type |
|----------------|-----------------------|-----------------|----------------|
| Water          | <br>Polar covalent    | <br>Bent        | Polar          |
| Methane        | <br>Nonpolar covalent | <br>Tetrahedral | Nonpolar       |
| Carbon dioxide | <br>Polar covalent    | <br>Linear      | Nonpolar       |

### 1) READ/OUTLINE: (30 minutes)

Read and outline Chapter 2 of the Openstax Biology textbook.

*The general chapter link is above, specific section links are below:*

### Chap 2. The Chemical Foundation of Life

- [Introduction](#)
- [2.1 Atoms, Isotopes, Ions, and Molecules: The Building Blocks](#)
- [2.2 Water](#)
- [2.3 Carbon](#)
- [Key Terms](#)

## 2) VIDEOS: The Chemistry of Life

(Take notes while you watch video)

a) Atomic Structure and the Periodic Table: (6:23)

<https://www.youtube.com/watch?v=Zg8fJz-2pjs>

b) The Nucleus: (10:11)

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=FSyAehMdpyl&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Lif&index=1&pp=iAQB)

[v=FSyAehMdpyl&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Lif  
&index=1&pp=iAQB](https://www.youtube.com/watch?v=FSyAehMdpyl&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Lif&index=1&pp=iAQB)

c) The Periodic Table: (11:21)

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=0RRVV4Diomg&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Lif&index=2)

[v=0RRVV4Diomg&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Li  
f&index=2](https://www.youtube.com/watch?v=0RRVV4Diomg&list=PLuYc8dBrwA251NofSCYsj3mijd4fs9Lif&index=2)

## 3) HOMEWORK

1) Complete the **Outline**.

2) Finish the **Video Notes**.

*Submit your assignment on Schoology as soon as completed.*