Unit 4- Cell Transport and Energy

You will learn the structure of the cell membrane and how substances move across it. You will learn how energy moves through the cell system using the chemical reactions Photosynthesis and Cellular Respiration.

State Standards:

**Bio.4.2.1**: Analyze photosynthesis and cellular respiration in terms of how energy is stored, release, and transferred within and between these systems

**Bio.4.2.2**: Explain ways that organisms use released energy for maintaining homeostasis



**You will be able to:**

* Explain the chemical reactions of photosynthesis and cellular respiration
* Describe the structure of the cell membrane
* Differentiate between types of transport



**Essential Question(s):**

How does a cell make and/or use energy to maintain homeostasis?

**Vocabulary**

1. Osmosis

2. Diffusion

3. Facilitated Diffusion

4. Photosynthesis

5. Thylakoid

6. Stroma

7. Electron Transport Chain

8. Calvin Cycle

9. Hydrolysis

10. Pigment

11. Cellular Respiration

12. Aerobic Respiration

13. Anaerobic Respiration

14. ATP

15. NADPH

16. Hypertonic Solution

17. Hypotonic Solution

18. Isotonic Solution

19. Phagocytosis

20. Pinocytosis

21. Endocytosis

22. Exocytosis