Science 7

Cellular Respiration & Photosynthesis \ Unit 3

Unit Overview

You will learn about how food is broken down in your body and how it is used for cellular respiration. You'll learn how plants create food, and how plants and animals are interconnected through matter and energy. You'll investigate these concepts through labs, data analysis, and the communication of results. You'll also create a variety of systems models to demonstrate your understanding.

Significant concepts/content/skills

Essential Questions:

- How is food broken down and used in the body?
- How do plants grow?
- How does matter and energy move between plants and animals?

Reporting Categories with Learner Outcomes:

- **Core Ideas & Concepts:** I can explain matter and energy movement in digestion, cellular respiration, and photosynthesis using system models.
- **Investigating Practices:** I can identify the independent/dependent variables, design a safe and fair test lab investigation, and analyze data.
- **Communicating Practices:** I can communicate my results in a Claims, Evidence, and Reasoning format. I can create system models of how energy and matter flow between plants and animals.

Assessments & Pacing

The unit should end in April.

- Multiple labs throughout the entirety of the unit.
- Quizzes to demonstrate understanding of key concepts.
- System models of major concepts.
- Daily Lesson Overview *(this is what students access in class)*

Should I have any questions or concerns about your child's progress during this unit,

I will contact you. Should you have questions or concerns, please email me at lspencer@acsamman.edu.jo (Mr. Spencer) or arogers@acsamman.edu.jo (Ms. Rogers)