

## **LITERACY SCIENCE**

- [Lesson Notes What are Blood Vessels](#)
- [Practice Worksheet 1 Guided Reading and Comprehension questions](#)
- [Practice Worksheet 2 Vocabulary and Labeling](#)
- [Practice Worksheet 3 Main Concepts Summary Review questions](#)
- [Practice Worksheet 4 Fill in the Blank and Matching](#)

## **INTRODUCTION TO BIOLOGY**

Topic: Excretory System

Week of June 1st

Standard- HS-LS1-2. Develop and use a model to illustrate the key functions of animal body systems, including (a) food digestion, nutrient uptake, and transport through the body; (b) exchange of oxygen and carbon dioxide; (c) removal of wastes; and (d) regulation of body processes

[youtube video-excretory system](#)

[youtube video-How the urinary system works](#)

[Excretory system webquest](#)

[Webquest: Urinary/excretory system](#)

[Excretory system Quizlet](#)

[Digestive & Excretory system review article](#)

## **BIOLOGY**

Week of June 1-5

Topic- Carbon Cycle

HS-LS2-5. Use a model that illustrates the roles of photosynthesis, cellular respiration, decomposition, and combustion to explain the cycling of carbon in its various forms among the biosphere, atmosphere, hydrosphere, and geosphere.

a. Review photosynthesis and cellular respiration by watching these videos and completing the worksheet

[Amoeba sisters photosynthesis video](#)

[Amoeba sisters cellular respiration video](#)

[Video about the relationship between photosynthesis and cellular respiration](#)

[Amoeba sisters photosynthesis and cellular respiration handout](#) – You do not need to print this. Just write the answer to each question in your notebook

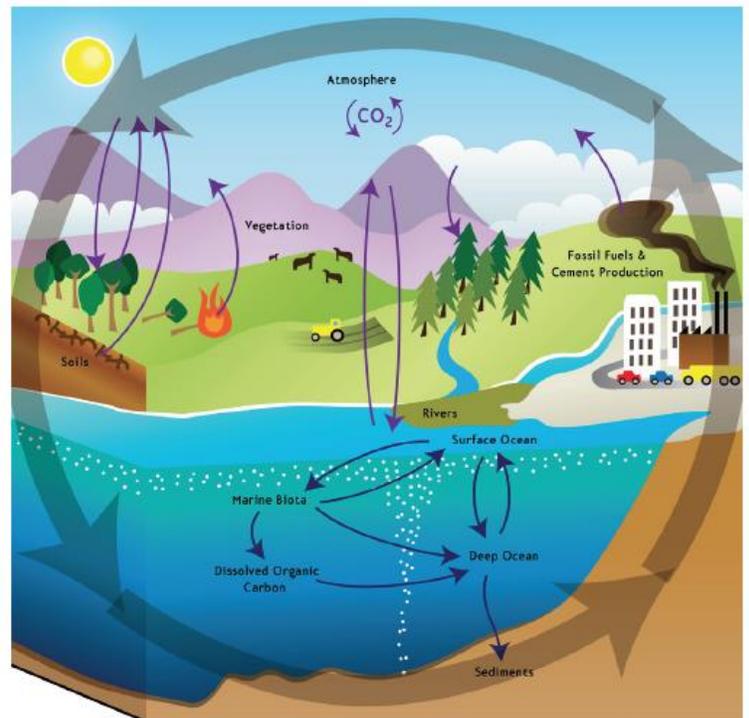
b. [Read this text](#) about the Carbon Cycle

c. Study this diagram about the carbon cycle

### The Carbon Cycle

The **carbon cycle** is another important biogeochemical cycle.

- We know that producers (autotrophs) undergoing photosynthesis need carbon. The producers get the carbon they need by removing carbon dioxide from the atmosphere.
- Carbon dioxide is also released during the process of cellular respiration, which is when organisms use oxygen and glucose to create their own energy.
- Carbon dioxide can also be released by burning wood and other carbon-containing materials (like fossil fuels).
- Runoff, rivers, and streams can also dissolve carbon in rocks and carry it to the ocean. This is a much slower process than photosynthesis and respiration.
- Limestone is an example of a carbon-containing rock. Carbon is in limestone because marine organisms use carbon dioxide to form calcium carbonate shells. Over millions of years, their leftover shells form sediments that become a part of limestone.



STUDENTS!

d. [Answer these online practice questions](#)

e. Watch these videos about the carbon cycle

[Amoeba sisters carbon cycle video](#)

[Carbon cycle Tedtalk](#)

[Carbon cycle animation video](#)

f. **Choose and answer 3** of the review questions after reading and watching the videos. Write the question and answer in a notebook. Take a picture and email it to Ms. G at [monicargoncalves@bpsma.org](mailto:monicargoncalves@bpsma.org)

Review Questions (choose 3)

1. What is the role of the carbon cycle?
2. Carbon is a very important element in biology. What are some of the reasons that organisms need carbon?
3. The carbon cycle is a cycle among the carbon reservoirs. What is a carbon reservoir and what are some examples?
4. Why is cycling carbon important?
5. Describe a major method that carbon is cycled.
6. How have human activities increased atmospheric carbon dioxide levels?

**g. Use the examples in this [document](#) to help you create your own model.**

**Draw and label** your own model of the carbon cycle. Your model should include the following labels: *atmosphere, biosphere, geosphere, hydrosphere, autotrophs, heterotrophs, fossil fuels, decomposition, combustion, photosynthesis, cellular respiration*

## **MCAS BIO REVIEW**

Week of June 1-5

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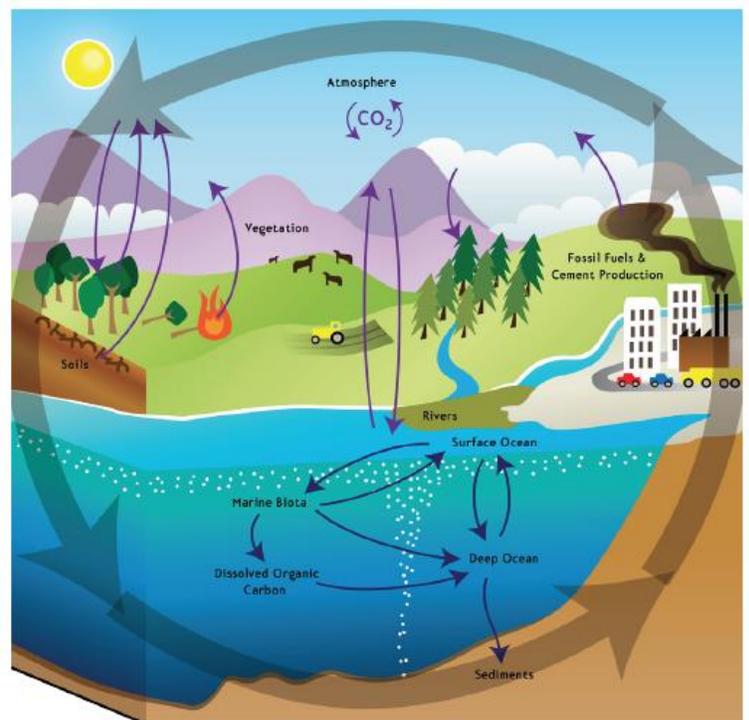
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## **CHEMISTRY**

**PS1. Matter and Its Interactions:** HS-PS1-3.

- [LESSON Notes Names and Formulas of Ionic Compounds](#)
- [Practice Worksheet 1 Naming Ionic Compounds](#)
- [Practice Worksheet 2 Naming and Writing Formulas of Ionic Compounds](#)
- [Practice Worksheet 3 writing formulas \(criss-cross method\) worksheet](#)
- [Practice Worksheet 4 Writing Essay Responses](#)
- [Resource Polyatomic Ions Table](#)