

# HONORS BIOLOGY MIDTERM EXAM STUDY GUIDE

## 2015 -2016

Use the following practice questions to help you prepare for our midterm exam. These questions **DO NOT** cover **ALL** of the content that you may be expected to know for the midterm; rather they represent a series of the **types** of questions you might be expected to answer.

As always, use your **UNIT STUDY GUIDES**, **ONLINE REVIEW GAMES**, and your **BIOLOGY JOURNAL** to review the full range of information and skills that you may be expected to display on the midterm.

**YOU SHOULD REVIEW ALL EXPERIMENTS WE HAVE PERFORMED AS DESCRIBED IN YOUR JOURNAL; INCLUDING THE DIFFUSION AND OSMOSIS LABS; THE ENZYME LAB; AND THE YEAST FERMENTATION LAB.**

**BE PREPARED TO ANALYZE A DESCRIBED EXPERIMENT, INCLUDING AN ANALYSIS OF THE VALIDITY OF A GIVEN PROCEDURE AND INTERPRETATION OF ANY DATA (claims with evidence).**

### Global Interdependence:

1. **DRAW** the **CARBON CYCLE**.
  - a) How does carbon enter a deer's body?
  - b) Identify two ways this element can leave the deer's body
  - c) How have humans altered the cycling of carbon?
  - d) How has that alteration impacted our environment?
  - e) What can we do to minimize the impact of human activities on the cycling a carbon?
2. **DRAW** the **NITROGEN CYCLE**.
  - a) **Nitrogen** is required for the synthesis of which organic compounds?
  - b) **Explain** how atmospheric nitrogen makes its way into a mammal. **Identify** the chemical forms of nitrogen involved, the reactions that convert nitrogen from one chemical form to another, and any microorganisms required for each chemical conversion.
  - c) **Explain** how the nitrogen in organisms is converted back into atmospheric nitrogen.
  - d) Why do farmers frequently include legumes as part of a crop rotation?
  - e) Why do farmers frequently use commercial fertilizers to increase the yield of their crops?
3. **Define and explain** the terms **eutrophication** and **hypoxia**. Include dead zone in your answer.
4. **Describe** the negative impacts the use of fertilizers can have on our environment and **explain WHY**.
5. DDT is an insecticide that often washes into rivers due to runoff. In a water environment with plankton, which are consumed by small fish, which are consumed by Tuna, which species would be the most harmful to humans? **Why?** What is this phenomenon called?
6. What is a "**Brownfield Site**"? What are some contaminants frequently found at such sites?
7. **Describe** the Greenhouse Effect. **Explain** current understandings of the **causes and effects** of the Greenhouse Effect and Global Warming.
8. **Describe** the **human activities** that may be contributing to changes in atmospheric CO<sub>2</sub> levels. **Describe** the effect that increasing CO<sub>2</sub> levels may have on the environment.
9. **Describe and explain** changes that could be made to make the Greenwich High School campus more environmentally friendly.
10. **What is biodiversity** and why is it important?

# Honors Lab Biology Midterm Study Guide

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