

# ISC1004 LAB WORKSHEET 5

## Biogeochemical Cycles - Principles and Concepts

### OBJECTIVES:

Upon completion of this lab, the student should be able to:

- ✓ List and explain the interactions between organisms and their environment
- ✓ Diagram the major chemical cycles within ecosystems: nitrogen, carbon, phosphorus.
- ✓ Discuss the “Gaia Hypothesis” within the context of biogeochemical cycles.

### INTRODUCTION:

1] Diagram and explain the *nitrogen cycle*.

2] Why is atmospheric nitrogen not usable by most plants?

3] How is human produced soluble nitrogen made? What is the name for this process?