

Name \_\_\_\_\_

# INTERACTION OF EARTH'S SYSTEMS

**Directions:** Read the information below.

## The Four Systems of Earth

All things on Earth can be described as belonging to one of four systems: biosphere, hydrosphere, geosphere, or atmosphere. Each of these systems serves an important function, but also works together with the other systems.

*Biosphere:* The biosphere includes all living things. This includes humans, animals, plants, and even living bacteria. There is no singular location for the biosphere; wherever there is life, there is part of our biosphere.

*Hydrosphere:* The hydrosphere is all of Earth's water. As you know, water can be in liquid or frozen form, or be present as water vapor through evaporation. No matter the form, water makes up the hydrosphere.

*Geosphere:* This system is the inside and physical surface of the earth. We see the crust of Earth's surface, but below that is a layer called the mantle, which sits on top of the outer core and inner core. While we do not see the mantle and core with our own eyes, we can see the geosphere when we look at the ground and physical landforms around us. Mountains, caves, and rock formations are just some of the components of the geosphere.

*Atmosphere:* Earth's atmosphere consists of all the gases that surround Earth. This includes air that we breathe each day. It also includes greenhouse gases that contribute to global warming.

*Interactions:* Each system has some effect or interaction with other systems. For example, we find life in the ocean with fish. In this way the biosphere interacts with the hydrosphere. There are many ways each of the systems interact.

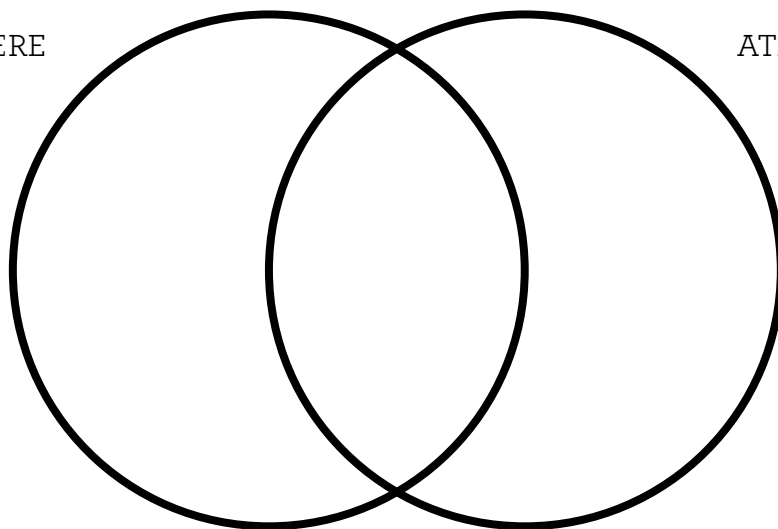
**Directions:** In each box, draw an example of something you might find in that system. Make sure to add a label showing what objects are in your sketch.

Biosphere	Hydrosphere	Geosphere	Atmosphere

**Directions:** In the middle of each Venn diagram, write at least one way each of the two systems interact with each other.

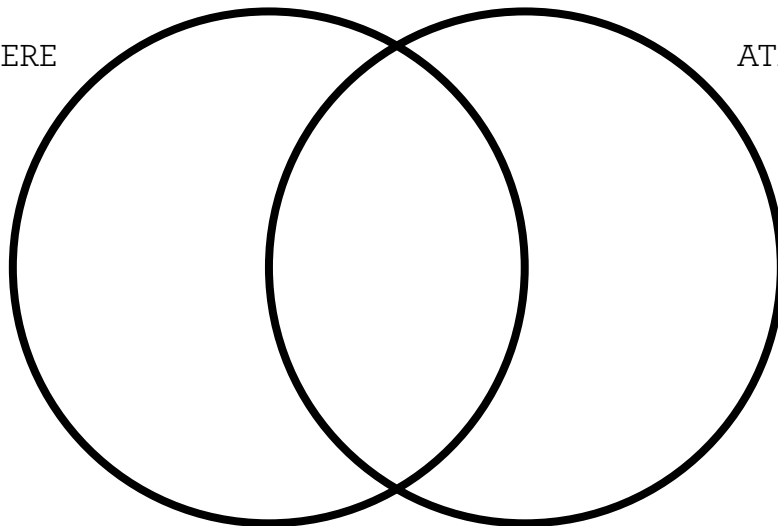
BIOSPHERE

ATMOSPHERE



GEOSPHERE

ATMOSPHERE



HYDROSPHERE

BIOSPHERE

