EARTH'S SUBSYSTEMS

Match Column A (Description) with Column B (Earth's Sphere)then match Column B with Column C (Process that happens in a specific sphere) by drawing a line between them.

Column A	Column B	Column C
It is a thin gaseous layer composed of 78% N, 21% O, 0.9% Ar and other trace gases	• BIOSPHERE	• atmospheric circulation
It is the set of all life forms on Earth which covers all ecosystems.	• ATMOSPHERE	• photosynthesis
It is the solid portions of Earth including the crust, mantle and core.	• HYDROSPHERE	• erosion and weathering
It is the combined mass of water found on, under, and above the surface.	• GEOSPHERE	• evaporation and transpiration

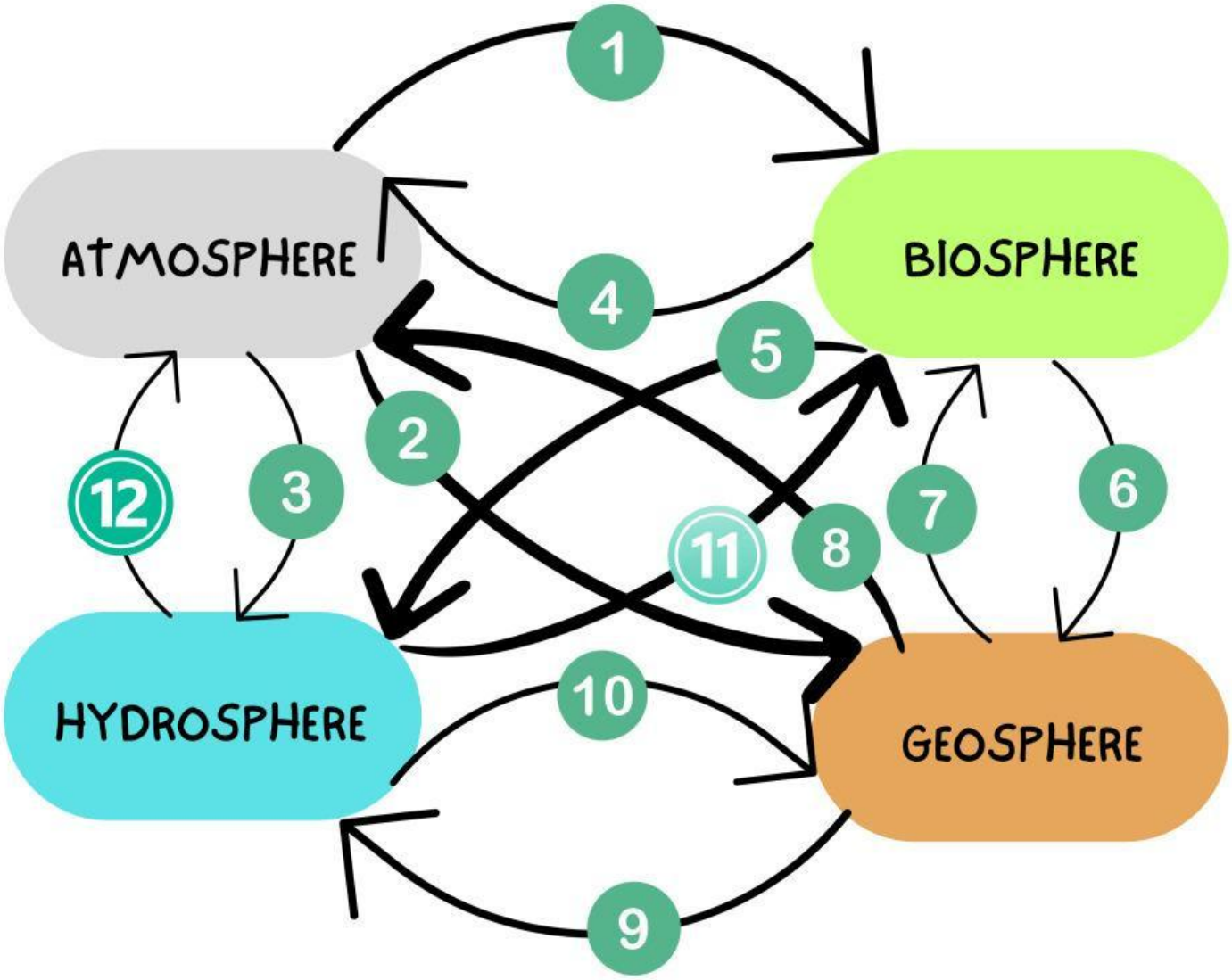
LIVEWORKSHEETS

CONNECTIONS WITHIN THE EARTH SYSTEMS

Try to analyze the diagram below which shows the interconnected interactions within the different Earth systems or spheres. Write the corresponding number that matches the interconnection of two respective Earth spheres.

For example, connection no. 1 shows how the atmosphere is related to the biosphere. One explanation is that the atmospheric chemistry and temperature (atmosphere) affect organisms (biosphere).

Letter A is done for you.



LIVEWORKSHEETS

_____ A. Atmospheric chemistry and temperature affect organisms

_____ B. Weathering and erosion control nutrient supply to life in the oceans

_____ C. Atmospheric temperature affects evaporation

_____ D. Locations of continents control the circulation pattern of oceans

_____ E. Plants absorb carbon dioxide from the water during photosynthesis, helping to regulate carbon levels in aquatic ecosystems.

_____ F. Atmospheric chemistry and temperature affect weathering of rocks

_____ G. Vegetation helps stabilize the soil and reduce erosion

_____ H. Volcanic eruptions add carbon dioxide and aerosols to the atmosphere

_____ I. Photosynthesis affects atmospheric carbon dioxide concentration

_____ J. Soil water limits plant growth

_____ K. Ocean circulation controls how much carbon dioxide is removed from the atmosphere

_____ L. Rainfall and runoff erode the land surface

LIVEWORKSHEETS