



Name:

Section:

Directions: Use the following terms and definitions to assist as you complete course materials.

Biogeography Course Vocabulary

| Number | Word | Definition | Unit |
|--------|--------------------------|--|--------------------------------|
| 1. | Biogeography | The study of the geographic distribution of species of plants and animals. | Unit I – Physical Geography |
| 2. | Botany | The scientific study of plant life, related to the field of biology. | Unit I – Physical Geography |
| 3. | Climate Change | The gradual change over time of the earth's climate as a result of natural and man-made processes. | Unit I – Physical Geography |
| 4. | Climatology | The study of the earth's climate and the forces that impact it, with an emphasis on the changes over thing in patterns and weather. | Unit I – Physical Geography |
| 5. | Continent | Large landmasses, usually agreed upon the existence of 7 (Africa, Antarctica, Asia, Europe, North America, Oceania, South America) | Unit I – Physical Geography |
| 6. | Continental Drift Theory | First proposed in 1912 by Alfred Wegener, theory explain the gradual movement of tectonic plates, and helps explain the distribution of similar species of plants and animals on different continents. | Unit I – Physical Geography |
| 7. | Earth Science | Branch of scientific study dealing with the physical processes of the planet and atmosphere. | Unit I – Physical Geography |
| 8. | Ecology | The scientific study of the relationship between organisms and their environment. | Unit I – Physical Geography |
| 9. | Environment | The surroundings or conditions which a person, plant, or animal exists in. | Unit I – Physical Geography |
| 10. | Erosion | The gradual process of changing the landscape caused by humans, ice, water, and wind, in the forms of Splash, Gully, Sheet, Rill, and Bank Erosion. | Unit I – Physical Geography |
| 11. | Fauna | The animal species that exist within a certain geographical area. | Unit I – Physical Geography |
| 12. | Flora | The plant life that exists within a certain geographical area. | Unit I – Physical Geography |
| 13. | Geomorphology | The study of the historical changes in the earth's topography. | Unit I – Physical Geography |
| 14. | Global Warming | The gradual increase in the earth's temperature as a result of the release of greenhouse gases into the atmosphere. | Unit I – Physical Geography |
| 15. | Hemisphere | Geographic regions divided into North and South by the equator, and East and West by the Prime Meridian. | Unit I – Physical Geography |
| 16. | Landform | Naturally formed topographic physical features of the planet's surface. | Unit I – Physical Geography |

| 17. | Latitude | East to West Reference lines, used to determine location North or South. | Unit I – Physical Geography |
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| 18. | Longitude | North to South Reference lines, used to determine location East or West. | Unit I – Physical Geography |
| 19. | Milankovitch Theory | Scientific Theory related to the effect of the earth's eccentricity (orbital pattern), and obliquity (tilt along axis) on the climate of earth. | Unit I – Physical Geography |
| 20. | Physical Geography | The study of the spatial characteristics of the various natural phenomena associated with the Earth's surface and atmosphere. | Unit I – Physical Geography |
| 21. | Plate Tectonics | Parts of the earth's crust, divided into oceanic and continental plates, that make up the planet's lithosphere. | Unit I – Physical Geography |
| 22. | Qualitative Data | Observable, but not measurable, data of quality traits (such as color). | Unit I – Physical Geography |
| 23. | Quantitative Data | The collection of measures of counts or values. | Unit I – Physical Geography |
| 24. | Region | A geographic area with common characteristics. | Unit I – Physical Geography |
| 25. | Season | Annual changes in climate due to earth's position in relation to the sun, resulting in changes in daylight, temperature, or weather patterns. | Unit I – Physical Geography |
| 26. | Water cycle | The process by which water evaporates from the earth's surface, condenses in the atmosphere, and falls back to the earth as precipitation. | Unit I – Physical Geography |
| 27. | Weather | Temporary changes in precipitation, overcast, wind speed, ect Can vary wildly from day to day | Unit I – Physical Geography |
| 28. | Weathering | Changes in appearance caused over prolonged periods of time by precipitation, wind, chemical reactions, or biological organisms. | Unit I – Physical Geography |
| 29. | Zoology | Scientific study of animal life, related to the study of biology. | Unit I – Physical Geography |
| 30. | Adaptation | The process of change which a species undergoes to be better suited for its environment. | Unit II – Principles of Biogeography |
| 31. | Adaptive Radiation | The diversification of a species into forms filling different ecological niches. | Unit II – Principles of Biogeography |
| 32. | Allochthonous Endemism | Species that are endemic to a location, but not originally from that particular geographic area. | Unit II – Principles of Biogeography |
| 33. | Ancestral Biotas | The original flora and fauna that inhabited a geographical area. | Unit II – Principles of Biogeography |
| 34. | Autochthonous Endemism | Species that are endemic, and are only found in the place where they originate from. | Unit II – Principles of Biogeography |
| 35. | Barriers | Biotic or abiotic features that restrict the movement of genes or individuals from one place to another. | Unit II – Principles of Biogeography |

| 36. | Biodiversity | The variety and variability of species of plants and animals in a geographical area. | Unit II – Principles of Biogeography |
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| 37. | Center of Origin | Geographic location from which a certain species expanded from. | Unit II – Principles of Biogeography |
| 38. | Convergence | Two independent species that evolve separately, but appear to be a single disjunct species | Unit II – Principles of Biogeography |
| 39. | Cosmopolitan Species | A species that is distributed in a wide variety of geographic locations. | Unit II – Principles of Biogeography |
| 40. | Disjunction | A species that is found in two disconnected geographical areas, but not found between them. | Unit II – Principles of Biogeography |
| 41. | Dispersal | The permanent or semi-permanent movement of species from one geographic location to another. | Unit II – Principles of Biogeography |
| 42. | Distribution | The way a species is spread out or arranged within a geographic area. | Unit II – Principles of Biogeography |
| 43. | Diversification | The development of new subspecies of animals, typically through the processes of evolution and adaptation. Can also refer to the maintaining of a multitude of types of species in an ecosystem. | Unit II – Principles of Biogeography |
| 44. | Endemic Species | Plants or animals that exist in only one particular geographic region. | Unit II – Principles of Biogeography |
| 45. | Evolution | Gradual change of characteristics over space and time within a species, based on the inheritance of desirable traits. | Unit II – Principles of Biogeography |
| 46. | Extinction | The elimination of a species, taxon. Can happen to individual species, or in mass waves of extinction events (currently 6 th wave). | Unit II – Principles of Biogeography |
| 47. | Fire Ecology | The study of the causes and effects of fire, and its role in the changing of an ecosystem. | Unit II – Principles of Biogeography |
| 48. | Glaciation | The covering of a landscape in glaciers, resulting in geomorphological changes in the topography. | Unit II – Principles of Biogeography |
| 49. | Island Biogeography | Subdiscipline of Biogeography that focuses on the uniqueness, or lack of, islands in terms of the ecosystems present relative to nearby islands or continents | Unit II – Principles of Biogeography |
| 50. | Persistence | The lack of movement by a particular species, anti-dispersal. | Unit II – Principles of Biogeography |
| 51. | Phylogeography | Study of the historical processes responsible for contemporary distributions of plants and animals. | Unit II – Principles of Biogeography |
| 52. | Population | The number of a given species, or individuals with a specific characteristic, in a specified area | Unit II – Principles of Biogeography |
| 53. | Provincialism | The existence of many endemic flora and fauna in a distinct geographic location. | Unit II – Principles of Biogeography |
| 54. | Range | The geographic area over which an organism lives or occurs. | Unit II – Principles of Biogeography |
| 55. | Specialization | Species that develops a characteristic that | Unit II – Principles of Biogeography |

| | | better allows them | |
|-----|---|---|---|
| 56. | Speciation | Evolutionary process by which organisms become distinct species. | Unit II – Principles of Biogeography |
| 57. | Species | A group of living organisms characterizes as genetic similarity between individuals capable of passing on genes or interbreeding. | Unit II – Principles of Biogeography |
| 58. | Taxon | Subdivisions of plants or animals, divided by species, family, or class. | Unit II – Principles of Biogeography |
| 59. | Theory of Evolution | Scientific Theory published by Charles Darwin in <i>Origin of Species</i> in 1859, connected to ideas of gradual change over time and survival of the fittest. | Unit II – Principles of Biogeography |
| 60. | Variation | Physical differences in characteristics between individuals of the same species. | Unit II – Principles of Biogeography |
| 61. | Vicariance | Geographical range of a taxa is split into parts by the formation of a barrier | Unit II – Principles of Biogeography |
| 62. | Baseline | Idea connected to Panbiogeography,-a major geological feature, such as an ocean or marine basin on a global scale, or a river or mountain chain on a continental scale which a track passes over. | Unit III - Applied Biogeography |
| 63. | Geographic Information Systems (GIS) | Computer programs designed to collect, store, analyze, and share geographic data. | Unit III - Applied Biogeography |
| 64. | Geospatial Modeling | Predictive representations based off the presence of observed qualitative or quantitative geographic data points. | Unit III - Applied Biogeography |
| 65. | Node | Idea connected to Panbiogeography,-area where two or more tracks intersect. | Unit III - Applied Biogeography |
| 66. | Observation | The process of viewing something in an attempt to collect data to arrive at some scientific truth. | Unit III - Applied Biogeography |
| 67. | Panbiogeography | Cartographically mapping out distributions of taxon to determine connections and center of origin. Used to predict evolution of species over space and time. | Unit III - Applied Biogeography |
| 68. | Scientific Theory | An explanation of an aspect of the natural world that can be repeatedly tested, in accordance with the scientific method, using a predefined protocol of observation and experiment. | Unit III - Applied Biogeography |
| 69. | Track | Idea connected to Panbiogeography,-A track is the graphic representation of the spatial structure present in a distribution with respect to the minimum distances between the individual localities of a taxon. | Unit III - Applied Biogeography |