

Biogeography Jeopardy

Range Finder	Genetic Geography	Survival of The fittest	Open Range	Forces of Change
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>

Final Jeopardy

1 - \$100

- List two physical factors that may limit a species ability to survive in a given land area

- Temperature, Precipitation, Soil Moisture, Light Saturation, Wind, Disturbances (Hurricanes, Fires, etc...)



1 - \$200

- What biotic relationship between species may lead to exploitation (use up resources so other species can not), or interference (species exerting dominance over one another for control of resources)
- Competition



1 - \$300

- What is the term used to identify the potential areas where a species could potentially live, which factors in physical, abiotic (non- living) factors, including temperature, humidity, soil chemistry, pH, salinity and oxygen levels
- Tolerance Range or Niche



1 - \$400

- What is the term for a feature (biotic or abiotic) that halts the spread or shift of a specie's range from one area to another

- Barrier



1 - \$500

- List 2 of the 3 mapping techniques that are commonly used to create range and distribution maps of different species
- Outline Map, Contour Map, or Dot Map



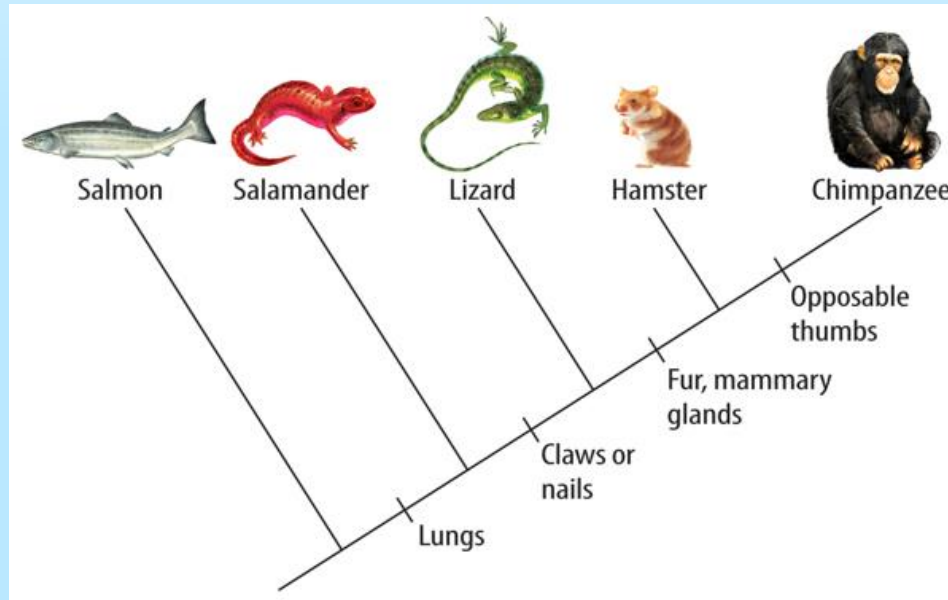
2 - \$100

- What is the term used for the field of geography connected to the mapping of genetic relations over time as a way to explain current distributions
- Phylogeography



2 - \$200

- In the Cladogram below which species would be classified as the “Outgroup”?



- Salmon



2 - \$300

- Who was the naturalist who first noticed and mapped out the sharp boundaries between floral and faunal bioregions during his time studying in Southeast Asia
- Alfred Wallace



2 - \$400

- Explain the general idea of the species energy theory
- The more direct sunlight an area receives the higher species diversity will be



2 - \$500

- Which terrestrial biomes act as exceptions to the species energy theory? List both

- Alpine (mountains) or Arid (Desert)



3 - \$100

- Which scientist's theory regarding the distribution of species around the earth was first published as *The Origin of Species* in 1859

- Charles Darwin



3 - \$200

- The example of Tonkin Snub Nose Monkey evolving to lose its nose to avoid frost bite is an example of which biological process to help it better survive in its environment



- Adaptation



3 - \$300

- 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.
- Diversification



3 - \$400

- The process by which a species became cut off through natural processes of separation and then evolved separately from the original species to form a whole new type species
- Vicariance



3 - \$500

- Term for a species that can now only be found in one specific area, but are not originally from that particular geographic area.
- Allochthonous Endemism



4 - \$100

- A species that can only be found in one area

- Endemic Species



4 - \$200

- A subdiscipline of Biogeography that specifically looks at areas where species are cut off by living in areas that are drastically different than the areas surrounding their habitat
- Island Biogeography



4 - \$300

- What is the term for a species that exists in two separate, non-connected areas like is shown for the Escargot de Quimper

- Disjunction



4 - \$400

- What is the process referred to as where by a single species (usually an apex predator) has resounding effects all the down the food web to the point that it has direct or indirect behavior altering influence over most of the species within an ecosystem
- Trophic Cascade



4 - \$500

- The opposite of a species who has moved around a lot (Dispersal)

- Persistence



5 - \$100

- While destructive, which form of ecology is necessary for annual ecological renewal by removing undergrowth and decayed biological materials
- Fire Ecology



5 - \$200

- Lion Fish and Zebra Mussels are both examples of what harmful ecological relationship

- Invasive Species



5 - \$300

- Changing the landscape over a period of hundreds or thousands of years, these landscape features can also influence the landscape around them by significantly cooling down an area and limiting potential bio-diversity
- Glacial Ecology



5 - \$400

- Necessary for maintaining balance between plants and animals this relationship between herbivores and carnivores acts as a population check on both types of species.
- Predator-Prey Relationship

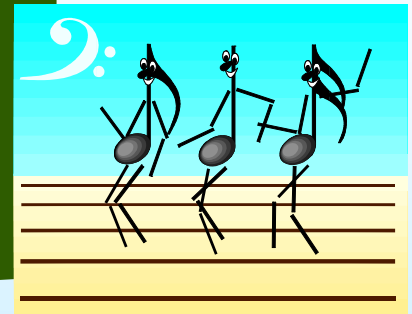


5 - \$500

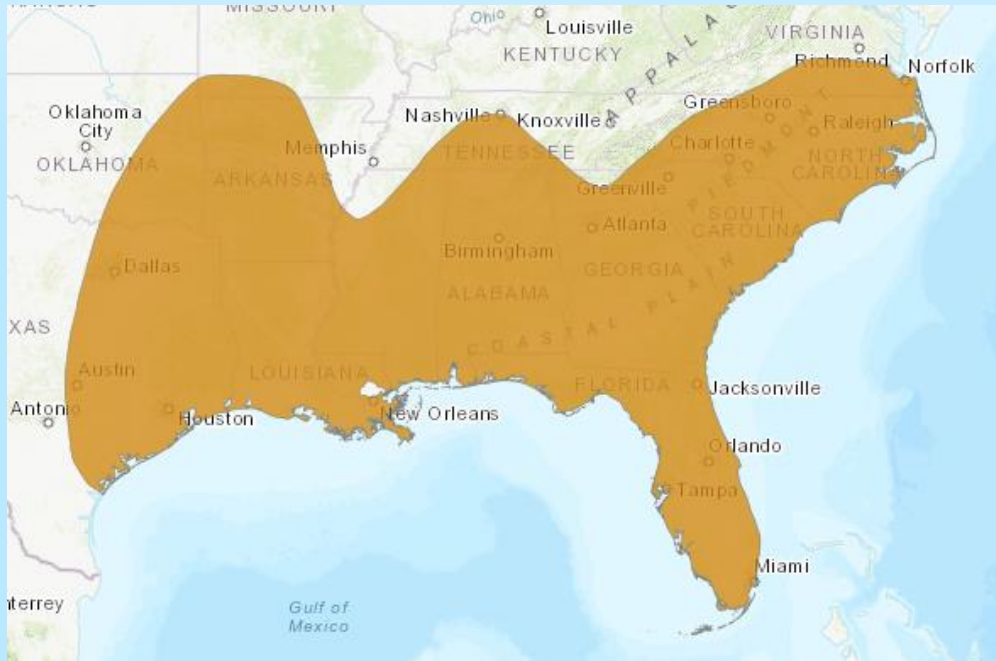
- What is one of the names that scientists have used to describe the current trend of loss of species worldwide
- Sixth Great Extinction, Holocene Extinction, or Anthropocene Extinction



Final Jeopardy



- Which Kingdom of the Night resident does the following Range Map represent?



- American Alligator

