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Topic: Speciation and Extinction Worksheet

Summary: Students match causes of environmental change, speciation, and extinction vocabulary terms with their definitions.

Goals & Objectives: Students will be able to define keywords for speciation and extinction.

NGSS Standards: *HS-LS4-5*. Evaluate the evidence supporting claims that changes in environmental conditions may result in (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.

Time Length: 10 minutes

Materials:
Class notes or textbook or online textbook:

- https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/5.22/primary/lesson/origin-of-species-bio/
- https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/5.6/primary/lesson/late-precambrian-period-bio/

Procedures:
1. Tell the students which section they are to use in the textbook. Students are then going to read the section and answer the questions on the worksheet.

Accommodations:
Give students with a modification IEP two free answers per section. Students with an IEP can take the handout home if they need extra time.

Editable DOCX File and Answer Key:
Available at www.ngsslifescience.com

Name: _____ Row: _____

Date:_____ Period:_____

Speciation & Extinction Worksheet

Speciation: Write the letter of the correct definition on the underlined space.

1. _____ reproductive isolation
2. _____ behavioral isolation
3. _____ geographic isolation
4. _____ temporal isolation
5. _____ subspecies

a) physical barrier that keeps two populations separate

b) populations of the same species differ genetically from each other

c) different reproduction times

d) differences in courtship or mating behaviors

e) individuals from different populations can no longer mate successfully with each other

Extinction: Write the letter of the correct definition on the underlined space.

6. _____ mass extinction
7. _____ episodic speciation
8. _____ biodiversity
9. _____ fossil record
10. _____ variation

a) difference between individuals

b) new species that form right after a mass extinction

c) destruction of many species that occurs suddenly in geologic time.

d) many different species living in the same ecosystem

e) organic matter that turned into rock. Used to record evolution

Environmental Conditions: Write the letter of the correct definition on the underlined space.

11. _____ drought
12. _____ fertilizers
13. _____ fishing
14. _____ flood
15. _____ deforestation

a) when nutrients are applied to agricultural crops

b) when too many aquatic animals are removed from the food web

c) too much water in a short period of time

d) when too many trees are removed from an ecosystem

e) a prolonged period of time with no water