Ecology Systems Unit 12



I CAN-

- 1. identify the levels of organization in an ecosystem.
- 2. identify the different trophic levels and roles in the ecosystem of an organism based on their energy consumption
- 3. trace the flow of energy and matter in an ecosystem through a food chain, food web, and ecological pyramid
- 4. calculate the amount of energy available to organisms in an ecosystem.
- 5. interpret and trace the flow of matter through the carbon cycle and nitrogen cycle.
- 6. predict possible outcomes of disruptions in food webs, carbon cycle, and nitrogen cycle.
- 7. identify the type of symbiotic relationships (mutualism, commensalism, parasitism) between two organisms
- 8. describe how competition of resources can affect organisms.
- ☐ 9. describe how predation affects the relationship between organisms.
- 10. discuss how changes in abiotic and biotic factors can affect populations and communities.
- 11. predict how a change in a biotic or abiotic factor factor can alter an ecosystem.
- □ 12. explain the importance of biodiversity in the sustainability of an ecosystem.
- 13. identify the difference between primary and secondary succession.
- 14. sequence ecolgoical succession when given different examples.
- ☐ 15. explain how succession affects species diversity.
- 16. identify adaptations that are well-suited to ecosystems.

WORDS TO KNOW

1. Ecosystem

2. Community

3. Population

4. Producer/autotroph

5. Primary/secondary/tertiary Consumer

6. Decomposer

7. Trophic level

8. Symbiosis

9. Mutualism

10. Commensalism

11. Parasitism

12. Predation

13. Competition

14. Primary succession

15. Secondary succession

Test Date:

Wednesd

16. Pioneer species

17. Climax community

18. Abiotic

19. Biotic

20. Carrying capacity



Monday	Tuesday	Wednesday	Thursday	Friday
4/1	4/2	4/3	4/4	4/5
Plants, Body Systems and Viruses Review	Plants, Body Systems and Viruses Exam	Late Arrival © © © © © © Topic: Ecology Activities: Test Analysis Unit 11 Pre-Assessment for Ecology Unit Plan and Expectation Sheet	Topic: Energy Flow Activities: Pyramid notes/ 10% rule Bioaccumulation Energy Transfer By the end of the period I can: 2, 3, 4, 6 XTD 3rd	Topic: Energy Flow Activities: Energy Flow activities/ Trophic levels with Food Webs and impacts By the end of the period I can: 2, 3, 4, 6
Monday	Tuesday	Wednesday	Thursday	Friday
4/8	4/9	4/10	4/11	4/12
Topic: Cycles Activities: Nitrogen and Carbon games By the end of the period I can: 5, 6, 11	ELA I STAAR	Topic: Relationships Activities: Symbiosis matching Ecological Relationships Topic: Populations Activities: Density Dependent/ Independent/ Carrying Capacity By the end of the period I can: 7, 8, 9, 10, 11, 12	Topic: Populations Activities: Density Dependent/ Independent/ Carrying Capacity Topic: Succession Activities: Simulations Levels of organization By the end of the period I can: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Topic: Succession Activities: Simulations Levels of organization Human Impact Scenarios By the end of the period I can: 12, 13, 14, 15, 16
Monday	Tuesday	Wednesday	Thursday	Friday
4/15	4/16	4/17	4/18	4/19
Topic: Ecology Review Activities: Break Out Review By the end of the period I can: 1-16	Topic: Review Activities: Review By the end of the period I can: 1-16	Ecology Exam	XTD 3rd STAAR PREPARATION	STAAR PREPARATION

^{****} This is a tentative calendar and subject to change.