ECOLOGY

Guided Notes/Questions Parts 2 & 3

Name	me:	Date:	Block:
LAT	ATITUDE AND CLIMATE		
1.	1. Because Earth is a that is parts of the Earth's surface at		
2. BIO]	 2. This results in 3 main climate zones: a: cold areas where the sure earth at a very low angle. b: which sits between the pathe tropics; climate ranges from hot to cold angles of the sun. c: near the equator, received sunlight. 	oolar zones and due to changing	90°N polar temperate tropical polar
3.	Ecologist group Earth's diverse environments into what? –Which is a complex of terrestrial communities that covers a large area and is characterized by certain soil and climate conditions, as well as particular plants and animals		
4.	What are the two determining factors of a biome?		
5.	List below the 10 major biomes.		

ABIOTIC AND BIOTIC FACTORS

- 6. Biological influences on organisms within an ecosystem is called what?
- 7. This biotic factors is also called what of the ecosystem and includes organisms like what?
- 8. The physical, or non-living factors that shape an ecosystem is called what? What type of factors are they?

COMPETITION 9. _____: occurs when organisms of the same or different species attempt to use an ecological resource in the same place at the same time. 10. _____: any necessity of life, such as water, shelter, food, nutrients, and space. 11. : An interaction in which one organism captures and feeds on another organism. SYMBIOTIC RELATIONSHIPS 12. Any relationship in which two species live closely together is called what? 13. There are 3 main classes of symbiotic relationships, list them below and give an example of each. a. : An example is... b. _____: An example is...____ c. ______: An example is..._____ MUTUALISM AND A COUPLE MORE RELATIONSHIPS 14. In a mutualistic relationship, _____ 15. Think about plants and their pollinators... a. How do plants benefit from being pollinated? b. How do pollinators benefit from pollinating plants? 16. What type of relationship is it when one member of the relationship benefits while the other is neither helped not harmed? Now give an example: 17. What type of relationship is it when one organism benefits from living on/inside another organism and the

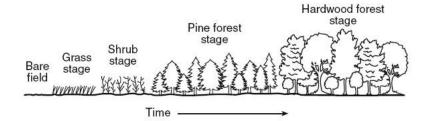
ECOLOGICAL SUCCESSION

18. Ecosystems are constantly changing in response to what?

other is harmed? ______ Now give an example.

19. As an ecosystem changes, old inhabitants move out, and new ones move in causing further changes. This series of predictable changes that occurs in a community over time is called what?

20. What are some causes of ecological succession?

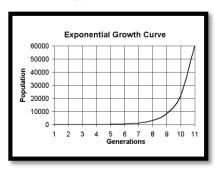


- 21. In the picture to the right, label each stage of succession.
- 22. What type of succession occurs on surfaces where **No SOIL** exists? This succession starts to grow on lava rock, volcanic ash, bare rock, and melting glaciers.
- 23. This type of species is the first to populate an area, what are they called? ______ a. _____: are made up of fungus and algae that can grow on bare rock.
- 24. What type of succession appears after ecosystem disruptions such as forest fires or abandoned clear land? **Soil is already established!**

POPULATION DENSITY

- 25. Population density can be defined as what? Which can vary tremendously, depending on species and its ecosystem.
- 26. What are **three** factors that can affect population size?

POPULATION GROWTH



- 27. The graph to the left shows what kind of growth?
- 28. Under ideal conditions, with unlimited resources, a population will grow exponentially. This is considered what? ______ Humans and bacteria are two organisms that grow in this way.
- 29. When resources become less available, growth will slow or stop, what type of growth is this? (picture to the left)
- 30. What is it called when the largest number of individuals that a given environment can carry? **Indicate it on the graph.**

