7	٦.	٠_			_
- 1	N	а	Т	n	e

Date:	Period:

Ecological Succession Worksheet

1. Any change in plant communities over time is called a(n)	·	
2. A common pioneer organism in a succession is the		
3. The final stable state of a succession is called thecommun	nity.	
4. The first organism in a succession is called the		·
5. Several years after some ground was cleared, grasses began to grow in an a bushes replaced the grasses. This pattern of plant growth is known as A. cover cropping B. evolution C. ecolo D. biolog 6. Which organisms would most likely be the pioneer organisms on a newly for the pioneer organisms or a new pioneer organism or a n	gical su gical co formed v uous tre	ccession ntrol volcanic island?
or questions 7 through 9, use this chart and your knowledge of biology.	asses	
or questions 7 through 9, use this chart and your knowledge of blology.	Stage	Dominant Flora
7. Which stage represents a pioneer community? A, B, C, D or E	A	None (freshly plowed land)
8. The replacement of stage B by stage C and the replacement stage C by	В	Annual grasses
stage D in a particular ecosystem is known as	С	Various shrubs
		7477040 0117000
A. exploitation C. ecological succession B. cover cropping D. punctuated equilibrium	D	Rirch and cherry trees
B. cover cropping D. punctuated equilibrium	D F	Birch and cherry trees
	D E	Birch and cherry trees Beech-maple forest
B. cover cropping D. punctuated equilibrium	s? grasses	Beech-maple forest → trees → trees

shrubs

and

young

trees

tundra

grasses

algae

and

lichens

bare rock

mosses

-movement of glacier-

Position of

edge of glacier at

present time

Position of

edge of glacier 100

years ago

This diagram best represents

A. nutritional relationships

B. a pyramid of energy

C. a food chain

D. ecological succession

Use the diagram below and your knowledge of succession to answer questions 13 through 15.

Rock I	Soil II	III iological Process	- NO	>
13. What would most likely be t	he predominant life C. trees	-torm found in stage 1?		
	D. mushrooms			
B. pioneer species	D. musimoonis			
14. Stage IV will persist until it	is altered by			
A. a major change in an ab	piotic factor			
B. seasonal dieback of veg	getation			
C. the reappearance of lich	nens and mosses			
D. the growth in diameter	of the trees			
15. What is a major limiting bio	tic factor for animal	succession in each stag	₇₆ 9	
A. plant species	C. soil minerals	succession in each stag	,0.	
B. sunlight	D. moisture			
20000000	2.111013.0010			
16. In a pond, which change wou	ld most likely lead t	to terrestrial succession	?	
A. a decrease in the number	er of suspended part	cicles in the pond water		
B. an increase in current v	elocity of the pond	water		
C. an increase in sediment	, fallen leaves, and t	tree limbs accumulating	on the bottom of the	pond
D. a decrease in the number	er of diverse organis	sms in the shallow wate	r of the pond	
17 Which statement concerning	the alimov stage of	en acalogical successiv	on is sorrect?	
17. Which statement concerning A. It is the first community		all ecological succession	on is confect?	
B. It consists entirely of pl				
C. It persists until the envi				
D. It changes rapidly.	ronnient changes			
D. it changes rapidly.				
			00 1 <u>22 - </u>	
18. This sequence of diagrams bes				
A. ecological succession	C. the effects of	acid rain	₁₄	No.
B. organic evolution	D. a food chain	- June	- Samuel	Marie Land
19. If no human intervention or na	tural disaster ecours	by the		Same?
year 2050 this area will most likel			- Chindre	4000
A. pond	C. forest	1840	1870	1900
B. field	D. desert	\ \ \	1 3 4	05.38V
D. Held	D. desert	be J	Metall 10138	Lating
20. The natural increase in the am	ount of vegetation f	rom 1840		
to 1930 is related to the	Č			wint.
A. use of the pond for fish	ing	1930	1960	1990
B. increasing amount of su		*****	7,000	1200

C. decreasing water depth

D. increase in the number of bottom dwelling organisms