# Biology Unit

# **Sample final exam**

## Vocabulary Matching

### HS-LS-2-2

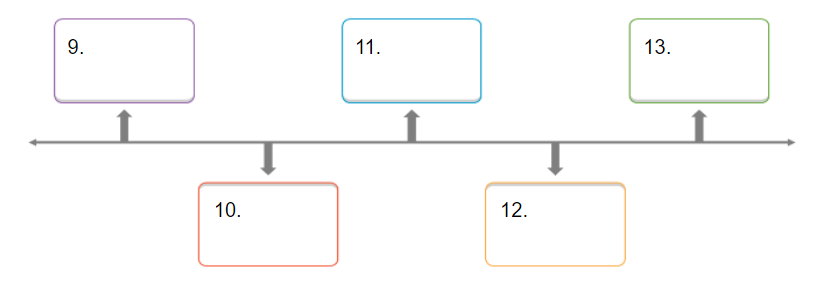
|  |  |
| --- | --- |
| 1. A large watershed that takes up most of Nevada and is unique in that it does not flow to the ocean \_\_\_\_\_\_\_\_ | 1. Biodiversity 2. Ecosystem 3. Great Basin 4. Population |
| 2. The variety of living things in the world or a particular area \_\_\_\_\_\_\_\_ |  |
| 3. A community of interacting living things and their physical environment \_\_\_\_\_\_\_\_ |  |
| 4. The number of individuals of one type, or species in a specific area \_\_\_\_\_\_\_\_ |  |

### HS-LS-2-1

|  |  |
| --- | --- |
| 5. The number of people, other living organisms, or crops that a region can support without environmental degradation \_\_\_\_\_\_\_\_ | 1. Annual precipitation 2. Carrying capacity 3. Ecological succession 4. Invasive species |
| 6. The total amount of water or precipitation an area receives in a year either as rain or snow \_\_\_\_\_\_\_\_  7. Any kind of living organism that is not native to an ecosystem and causes harm \_\_\_\_\_\_\_\_ |  |
| 8. A process of how plant, animal, and living populations change over time.  For example, after a severe wildfire \_\_\_\_\_\_\_\_ |  |

## Timeline of Events After a Wildfire

### HS-LS-2-2

Fill in the blanks on the timeline with correct letter for the major event after a wildfire using the number

1. Pinyon pines are fully grown
2. Cheatgrass returns to the ecosystem
3. Sagebrush begins to regrow
4. Bare ground
5. Bottlebrush Squirreltail regrows

## Analyze Field Site Photos

### HS-LS-2-2 and HS-LS-2-7

Use the following field site quadrat photos to answer questions 14 through 17.

14. Observe the following images. Which areas shown **have recently had a wildfire?** Choose the best option.

1. Images 2, 3, 5
2. Images 1, 4, 6
3. Images 2, 4, 6
4. Images 1, 2, 3

15. In image 1, what percent ground cover is there?

1. 20%
2. 100%
3. 50%
4. 70%

16. In image 1, what species of plants are not observable?

1. Pinyon Pine
2. Squirreltail
3. Sagebrush
4. Cheatgrass

17. Using these photos, how recent was the wildfire?

1. More than 60 years
2. 10 years
3. 3 years
4. 1 year

## Field Site Photos

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\C65DDF60.tmp | 2 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\2D585C6E.tmp |
| 3 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\CAB5F2AC.tmp | 4 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\BF0C699A.tmp |
| 5 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\84EE74B8.tmp | 6 | C:\Users\seusden\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\83B69386.tmp |

## **How to Prepare for Wildfire**

18. Which of the following is the best action can you do around your house to REDUCE your risk of wildfires?

1. Create space between flammable materials and buildings
2. Bulldoze all trees in the neighborhood
3. Plant cheatgrass
4. Planting shrubs close to your house
5. Stack firewood against building walls

## **True** or False

Questions 19-23 A-True, B=False

19. Wildfires are most frequently caused by lightning.

20. Humans are responsible for causing 40% wildfires.

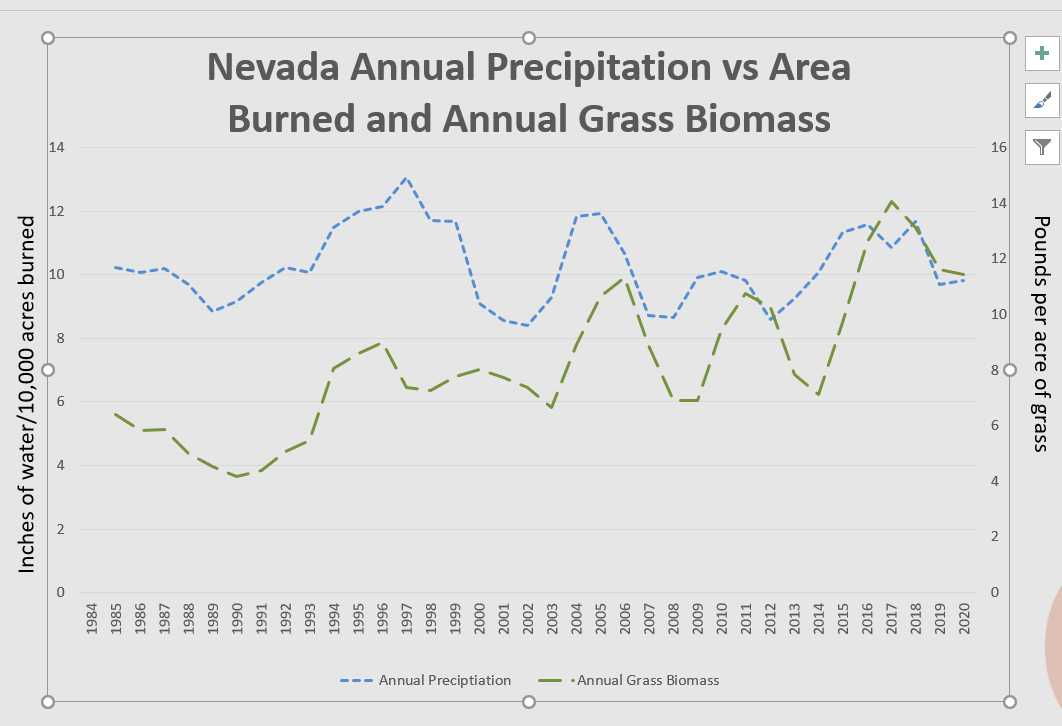
21. Sagebrush takes 10 years to regrow after a fire.

22. Removing dead trees from the forest will have no effect on wildfires.

23. Tree health is partially dependent on forest density.

## Claim Evidence Reasoning

### HS-LS-2-6

Use the graph below to complete the Claim Evidence Reasoning Statement in questions 24 through 27.

24. (2 points) State Claim: What relationship do you see between annual precipitation (water) and annual grasses? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

25. (2 points) Cite evidence (quantitative data, numbers) from the above graph to support your claim.

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26 (2 Points) Predict: Record the two years where large wildfires are most likely to occur:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_        \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27. Reasoning: Explain why you think the above years will have the highest chances on wildfires

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_