

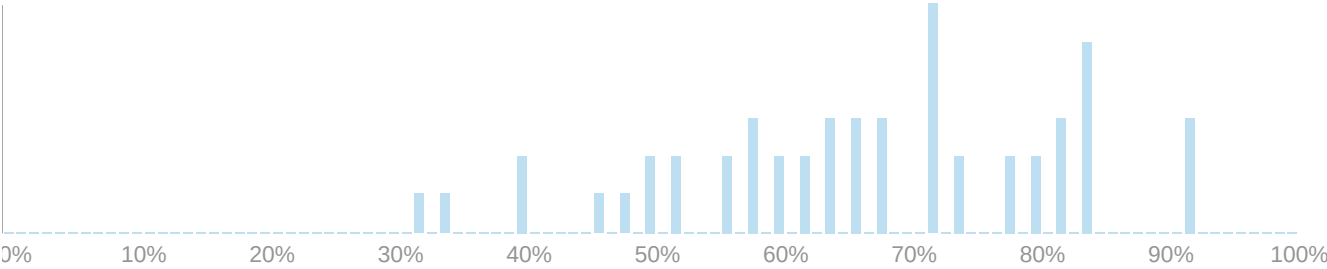
Quiz Summary

Section Filter ▾

Student Analysis

Item Analysis

⌚ Average Score	🏆 High Score	📉 Low Score	⊖ Standard Deviation	🕒 Average Time
67%	92%	32%	3.69	23:26:86



Question Breakdown

Attempts: 51 out of 51

+0.11

Which of the following biomes are largely regulated by fire? Discrimination Index ?

grasslands	49 respondents	96 %	✓ 96% answered correctly
rainforests		0 %	
deserts		0 %	
boreal forests	2 respondents	4 %	

Attempts: 50 out of 51

Why are plant communities typically used to characterize terrestrial biomes?

+0.31Discrimination
Index (?)

Because plants use photosynthesis they are more sensitive to light input.	1 respondents	2 %
Because their growth rates are sensitive to humidity.	3 respondents	6 %
Because they experience the full range of abiotic conditions for that area.	45 respondents	88 %
Because they are highly mobile.	1 respondents	2 %
No Answer	1 respondents	2 %

88%
answered
correctly

Attempts: 49 out of 49

With regards to the [Section 2 Discussion Activity](#).

(<https://jdyeakel.github.io/teaching/ecology/section2/>), which of the Models (high constraint, medium constraint, low constraint) were the *best match* to observed data in the dry environment?

Low Constraint	40 respondents	82 %	✓78% answered correctly
High Constraint	4 respondents	8 %	
They were all good matches	1 respondents	2 %	
Medium Constraint	7 respondents	14 %	
No Answer	2 respondents	4 %	

Attempts: 51 out of 51

Of the following biomes, which demonstrates the least seasonality with regards to precipitation?

temperate grasslands	16 respondents	31 %
----------------------	----------------	------

temperate woodlands	7 respondents	14 %	47% answered correctly
tropical savannas	8 respondents	16 %	
tropical rainforests	33 respondents	65 %	✓

Attempts: 51 out of 51

Which of the following ecological zones are considered to span multiple biomes? **Select all answers that are correct.**

mountains	43 respondents	84 %	✓ 33% answered correctly
shallow oceans	12 respondents	24 %	
rivers	36 respondents	71 %	✓
grasslands	16 respondents	31 %	
mangroves	12 respondents	24 %	

Attempts: 51 out of 51

Of the following biomes, which demonstrates the most seasonality with regard to temperature?

temperate woodlands	29 respondents	57 %	22% answered correctly
tropical rainforests	4 respondents	8 %	
deserts	15 respondents	29 %	✓
temperate evergreen forests	22 respondents	43 %	

Attempts: 51 out of 51

Which of the following ecological zones occupy shallow marine environments? **Select all answers that are correct.**

seagrass beds	49 respondents	96 %	✓ 41% answered correctly
stream tributaries	9 respondents	18 %	
hyporheic zones	21 respondents	41 %	
kelp beds	45 respondents	88 %	✓
benthic zones	7 respondents	14 %	

Attempts: 49 out of 49

With regards to the [Section 2 Discussion Activity](https://jdyeakel.github.io/teaching/ecology/section2/)

(<https://jdyeakel.github.io/teaching/ecology/section2/>), which of the Models (high constraint, medium constraint, low constraint) assume that an upper optimum activity temperature threshold is important. **Select all answers that are correct.**

Medium Constraint	28 respondents	57 %	✓ 37% answered correctly
Low Constraint	15 respondents	31 %	
None of the above	9 respondents	18 %	
High Constraint	22 respondents	45 %	✓
No Answer	2 respondents	4 %	

Attempts: 50 out of 51

Among mammals, there is a temperature range where the organism's Basal Metabolic Rate is not expected to change. This is known as the *thermoneutral zone*. If temperatures fall below the lower critical temperature, the basal metabolic rate will

+0.26

Discrimination
Index (?)

first decrease and then increase	1 respondents	2 %
not change	1	2 %

increase	42 respondents	82 %	82% ✓ answered correctly
decrease	6 respondents	12 %	
No Answer	1 respondents	2 %	

Attempts: 51 out of 51

Which of the following terms describes populations that are adapted to unique environments within a given species range?

+0.58Discrimination
Index ?

realized niche	4 respondents	8 %	84% answered correctly
potential niche	3 respondents	6 %	
ecotype	43 respondents	84 %	✓
ecozone	1 respondents	2 %	

Attempts: 51 out of 51

_____ generally have a smaller activity window, but require less energy/unit time to fuel their bodies.

-0.17Discrimination
Index ?

ectotherms	48 respondents	94 %	✓ 94% answered correctly
endotherms	2 respondents	4 %	
gigantotherms	1 respondents	2 %	
mesotherms		0 %	

Attempts: 49 out of 49

With regards to the [Section 2 Discussion Activity](https://jdyeakel.github.io/teaching/ecology/section2/)

(<https://jdyeakel.github.io/teaching/ecology/section2/>), which of the following did Gunderson and Leal use to define an 'active' lizard? **Select all answers that are correct.**

mating	47 respondents	96 %	✓ 57% answered
signaling	47 respondents	96 %	✓ correctly
resting	3 respondents	6 %	
feeding	48 respondents	98 %	✓
fighting	29 respondents	59 %	✓
No Answer	2 respondents	4 %	

Attempts: 51 out of 51

+0.36

Ectotherms are better suited to warmer environments than endotherms.

Discrimination
Index (?)

True	23 respondents	45 %	55% answered
False	28 respondents	55 %	✓ correctly

Attempts: 51 out of 51

The Light Compensation Point is defined by the amount of incident light where

+0.35Discrimination
Index (?)

photosynthesis transitions to chemosynthesis	12 respondents	24 %
the internal CO ₂ concentration of bundle sheath cells becomes greater than the atmospheric concentration	10 respondents	20 %

the carboxylase reaction overcomes the oxygenase reaction

15
respondents

29 %

the oxygenase reaction overcomes the carboxylase reaction

14
respondents

27 %

29%
answered
correctly

Attempts: 51 out of 51

You are a paleontologist and unearth a beautiful fossil with intricately preserved impressions of feathers covering the entire body of this species that appears to be new to science. What is one thing that you can state with regard to this extinct organism?

+0.51

Discrimination
Index ?

It is an ectotherm	2 respondents	4 %	84% answered correctly
It is an endotherm	43 respondents	84 %	
It is a poikilotherm	1 respondents	2 %	
It is a homeotherm	5 respondents	10 %	

Attempts: 51 out of 51

An organism that is mobile and can follow a temperature gradient to maintain a constant body temperature is a

+0.59

Discrimination
Index ?

homeotherm	31 respondents	61 %	61% answered correctly
endotherm	9 respondents	18 %	
ectotherm	6	12 %	

poikilotherm **respondents** 5 **respondents** 10 %

Attempts: 50 out of 50

What are the means by which plants control their temperature? **Select all answers that are correct.**

Transpiration	49 respondents	98 %	✓ 28% answered correctly
Seasonal shedding of leaves	26 respondents	52 %	✓
Spine density	16 respondents	32 %	
Leaf orientation	37 respondents	74 %	✓
Leaf pubescence	37 respondents	74 %	✓
No Answer	1 respondents	2 %	

Attempts: 51 out of 51

The actual distribution of an organism is greater than the potential distribution of the organism.

+0.54

Discrimination
Index (?)

True	13 respondents	25 %	75% answered
False	38 respondents	75 %	✓ correctly

Attempts: 51 out of 51

Which plant group creates a miniature atmosphere within its leaves to achieve increased efficiency of carboxylation and oxygenase reactions that are catalyzed by the protein RUBISCO?

+0.05

Discrimination
Index (?)

C4 plants	44 respondents	86 %	✓ 86% answered correctly
C3 plants	4 respondents	8 %	
ferns		0 %	
CAM plants	3 respondents	6 %	

Attempts: 51 out of 51

Tens of thousands of years into the future, the concentration of carbon dioxide CO₂ declines and temperature increases. The efficiency of C₃ photosynthesis would be expected to

+0.17

Discrimination
Index (?)

decrease	44 respondents	86 %	✓
There is not enough information to say either way.	3 respondents	6 %	
stay the same		0 %	
increase	4 respondents	8 %	

86%
answered
correctly