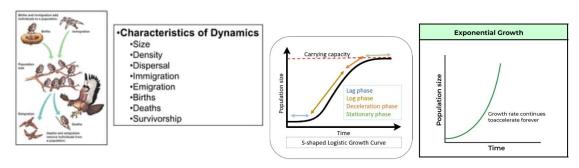
Day 16 - Biology - 9-19-24 to 9-20-24

CLASSWORK (15 min) – Populations

NO CELL PHONES, EARBUDS, HEADPHONES-Submit on Schoology when completed.

Population Dynamics



1) LAB ACTIVITY: Population Dynamics (15 min)

- 1) Write a "Pre-lab report."
- 2) Go to the interactive simulation:

https://media.hhmi.org/biointeractive/click/populationdynamics/#/

Click on the **logistic** growth model. Play with the model and write your observations about how certain changes in values have certain outcomes. Pay particular attention to how moving the time slide button changes the graph.

Now click on the **exponential** growth model. Play with the model and write your observations about how certain changes have certain outcomes. Once again, pay attention to how moving the time slide button changes the graph.

2) VIDEO NOTES (24 min):

- a) Population Growth Models: Mr. Sinn https://www.youtube.com/watch?v=MjRezc-h2zY
- b) Global population growth: Fuse School https://www.youtube.com/watch?v=Fvgit57mpZw
- c) Human Population Dynamics: Bozeman Science: https://www.youtube.com/watch?v=DqKg5rWLpEo

3) EXPLAIN/DRAW:

Take a sheet of blank paper, holding in "hamburger" format, and fold to make 4 boxes. Explain, illustrate, and label your drawings. Your text can be in pen, but your drawings must be in colored pencil.

The first draft of the assignment due on Schoology before the end of class.

FRONT

1) Immigration vs Emigration

https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.19/primary/lesson/population-growth-bio/

2) Factors that increase population

https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.19/primary/lesson/population-growth-bio/

3) Factors that decrease population

https://bio.libretexts.org/Bookshelves/Introductory and General Biology/Introductory Biology (CK-12)/06%3A Ecology/6.19%3A Population Growth

4) Population natural growth rate formula

https://bio.libretexts.org/Courses/University of Pittsburgh/Environmental Science (Whittinghill)/14%3A Population Ecology/14.02%3A Population Growth and Regulation

BACK

5) What is population density? What is dispersal?

https://bio.libretexts.org/Bookshelves/Introductory and General Biology/Introductory Biology (CK-12)/06%3A Ecology/6.17%3A Population Size Density and Distribution

7) What is carrying capacity?

https://www.britannica.com/science/carrying-capacity

8) What are density dependent limiting factors?

https://www.khanacademy.org/science/ap-biology/ecology-ap/population-ecology-ap/a/mechanisms-of-population-regulation

9) What are density independent limiting factors?

https://www.khanacademy.org/science/ap-biology/ecology-ap/population-ecology-ap/a/mechanisms-of-population-regulation

4) HOMEWORK:

- 1) Complete the Lab assignment.
- 2) Complete the Video Notes.
- 3) Complete the **Explain/Draw** assignment.

Submit on Schoology as soon as complete.