TUESDAY, MAY 28th

DO NOW

There are just over 1000 Watts in 1 kiloWatt and Intensity equals Power divided by Area. These are equations of the Sun!

Know:
$$1000W = 1kW$$

$$Intensity = \frac{Power}{Area}$$

Asked: What would be the Power in kiloWatts released by the Sun on an Area of $10m^2$ with an Intensity of $5000 \frac{W}{m^2}$?

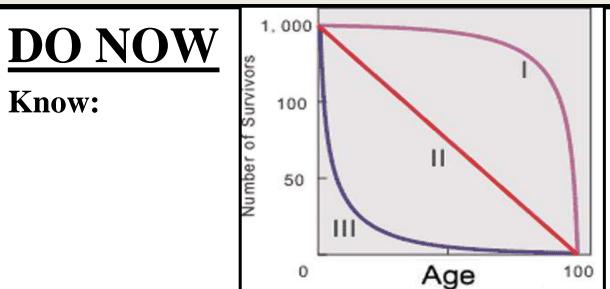
TODAY'S PLAN

- 1. Do and review the **DO NOW** and **Qualitative Prompt (QP)!**
 - Today's **QP** = <u>QP BOOK REVIEW</u> = <u>Using Pg. 48 of your book, LIST</u> three possible CAUSES and <u>EFFECTS of COMPETITION and then SKETCH the "Smiley Face"</u> Diagram on Pg. 50!
- 2. Open books, WORK on today's **AO!**
- 3. ***HW** = Read & Do Pg. 62-65!

TODAY'S ACADEMIC OBJECTIVE

Today you will OBSERVE the many INTERACTIONS between and within SPECIES!

WEDNESDAY, MAY 29th



Asked: Which line most likely shows a

"Survivorship Curve" for humans?

A: || **B:** || **C:** | **D:** V

TODAY'S PLAN

- 1. Do and review the **DO NOW** and Qualitative Prompt (QP)!
- Today's **QP** = <u>QP BOOK REVIEW</u> = REDEFINE the terms "Ecosystem" and "Biome" and then use Pg. 64-65 of your book to LIST 3 factors that can make one Biome DIFFERENT from another!
- 2. Open books, WORK on today's AO!
- 3. ***HW** = Read & Do Pg. 66-73!

TODAY'S ACADEMIC OBJECTIVE

Today you will RESEARCH the Biotic and Abiotic FACTORS unique to each BIOME!

THURSDAY, MAY 30th

DO NOW

There are 1000 grams in 1 kilogram and Density equals Mass divided by Volume. These are equations of Population Density!

Know:
$$1000g = 1kg$$
$$D = \frac{m}{V}$$

Asked: What would be the Mass in kilograms of a Yak with a Density of $50\frac{g}{m^3}$ and Volume of 3000 cubic meters (m³)?

TODAY'S PLAN

- 1. Do and review the **DO NOW** and **Qualitative Prompt (QP)!**
 - Today's QP = QP BOOK REVIEW = Using Pg. 67-71 LIST the SIX Major Land BIOMES and then SKETCH a PICTURE of each (you must include at least ONE Animal and PLANT in each!)!
- 2. Open books, WORK on today's AO!
- 3. ***HW** = <u>Read & Do Pg. 66-73 +</u> Finish Tech Chex HW!

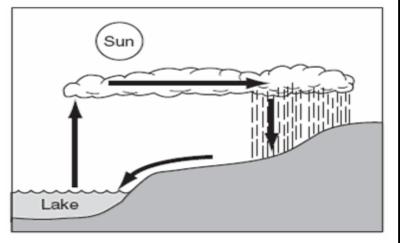
TODAY'S ACADEMIC OBJECTIVE

Today you will RESEARCH the Biotic and Abiotic FACTORS unique to each BIOME!

FRIDAY, MAY 31st

DO NOW

Know:



Asked: Which process does this graphic **most**

likely show?

A: The Sun Cycle **D:** The Bicycle

B: The Water Cycle

C: The Rain Cycle

TODAY'S PLAN

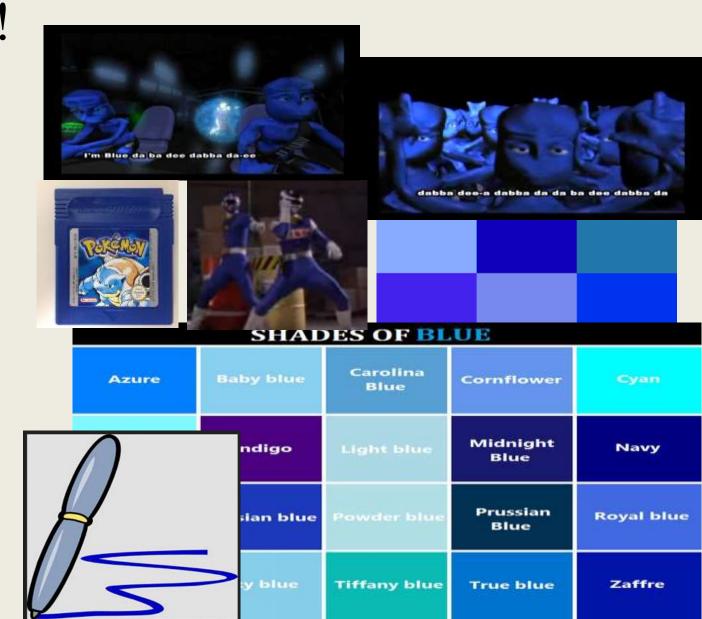
- 1. Do and review the **DO NOW** and **Qualitative Prompt (QP)!**
 - Today's **QP** = <u>DESCRIBE</u> whether or not you'd rather be STRANDED on top of a MOUNTAIN or on a BOAT in Water and then CONTRAST 3 of the following; Rivers, Streams, Lakes, Ponds, Puddles, Bogs, Bays, Swamps, Marshes, Reefs, Seas, or Oceans!
- 2. Open books, WORK on today's **AO!**
- 3. ***HW** = Pg. 74-79 + Tech Chex HW!

TODAY'S ACADEMIC OBJECTIVE

Today you will RESEARCH the Biotic and Abiotic FACTORS unique to each BIOME!

Blue Mark Opportunity – End of Year EC

- STUDENTS, listen UP!
- SOME BLUE could be on the way to HELP your final quarter GRADES!
- To EARN some of this **BLUE** here is what ya gotta DO!



Blue Mark Opportunity – End of Year EC

- STUDENTS, listen UP!
- SOME **BLUE** could be on the way to HELP your final quarter GRADES!
- To EARN some of this **BLUE** here is what ya gotta DO!
 - Your MISSION is to head OUTSIDE and RECORD one of these SPECIES INTERACTIONS in REAL-TIME using your DEVICE!
 - DON'T FORGET that PLANTS interact with other Organisms as well though!



sapling learning

Types of Interactions

Predation





Commensalism





Parasitism





Mutualism





Competition

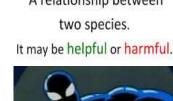




Cooperation









THE SGS - STUDY GUIDE SLIDE - ECOLOGY FINAL

- Students must KNOW:
 - What is Ecology? What are the "levels of Ecological Organization" ordered from smallest to largest?
 - 2. What is a Limiting Factor? What is Carrying Capacity? What are examples of Biotic and Abiotic Factors that could lead to Competition and/or reduced Population Growth?
 - 3. What is a Producer, Consumer, Decomposer, Herbivore, Carnivore, and Omnivore?
 - 4. What are examples of the four main Species Interactions (Cooperation, Competition, Predation, & Symbiosis) and the three types of Symbiosis (Mutualism, Commensalism, & Parasitism) and how are they different?

- Students must be able to DO:
 - 1. Contrast a Habitat & Niche and the difference in reading a Food Chain & Food Web.
 - 2. Identify and Graph Eco Graphs with 2 Y-Axes such as "Predator VS Prey".
 - 3. Compare and Contrast "K" and "R" Species.
 - Describe the climate, location, <u>issues</u>, and other characteristics of the Major Land and Water Biomes.

THE SGS - STUDY GUIDE SLIDE - ECOLOGY FINAL

Students must KNOW:

- I. The study of Organisms and their Interactions with the Environment. Individual Organism/Species, Population, Community, Ecosystem, Biome, and Biosphere.
- 2. Factors that limit the growth of a Population (Less Births/Immigration or more Deaths/Emigration). The maximum number of individuals of a given Species 2. that an area can support. See Pg. 6-7 & 3. Pg. 34-38.
- 3. See Pg. 20-21.
- 4. See Pg. 38-39 and Pg. 44-50.



Habitat = an Organism's Home, Niche = an Organism's Role/Job aka how they SURVIVE in their Ecosystem. Both Food Chains and Food Webs show the TRANSFER of energy in an Ecosystem via feeding relations, and both USUALLY start with the Sun. Food Chains only show one path while Food Webs are more complex and show many paths/relationships.

Students must be able to DO:

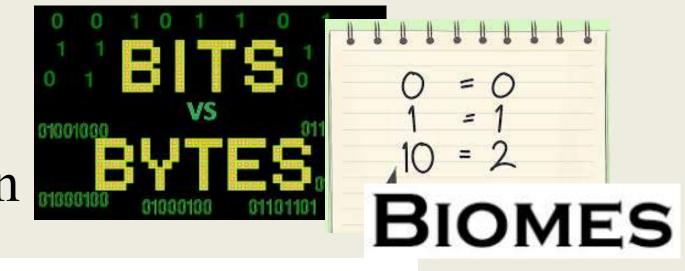
See QP 5-13, 5-14, 5-15, 5-16, and 6-5.

"K" Species (Ex: Chimps) are larger, have fewer offspring, and live longer. "R" Species (Ex: Snails) are smaller, have many offspring, but live shorter lives.

See Pg. 62-85 + the Tech Chex HW.

Tech Chex – Bits & Bytes to Biomes

 Today's edition of Tech Chex is called "Bits & Bytes to Biomes" and in it we are going use our **Devices** to research more about the PROPERTIES of each Earthen BIOME!



Terrestrial vs. Aquatic Biomes

- Terrestrial biomes are ones located on land
- In your group list the 6 terrestrial biomes you've learned about on the white board.



Terrestrial vs. Aquatic Biomes

- · Aquatic biomes are located in water
- What are the two main types of water on the earth?



- **Tech Chex Steps Bits & Bytes to Biomes**FIRST, take out your DEVICE, and head on over to the following website!
 - http://kids.nceas.ucsb.edu/biomes/
 - https://onlinedegrees.kent.edu/geography/geograp hic-information-science/community/biomestypes-and-human-impact
 - If you do not have a DEVICE, don't worry! You can borrow one of these LAPTOPS!
- Next, SELECT one AQUATIC and one **TERRESTRIAL Biome**, L∞K UP the FOLLOWING about it, and then WRITE what you find into your SCIENCE NOTEBOOK!
 - Organisms
 - Landforms
 - Map showing where Biome is found (**Sketch!**)
 - Abiotic Factor Data (Temperature, Sunlight, Rainfall, Humidity, etc.) (**Tabulate!**)
 - Dangers/Problems/Issues (THIS IS THE MOST **IMPORTANT THING YOU NEED!!!)**
- Finally, ANSWER any HW Problems!



Tech Chex Steps – Bits & Bytes to Biomes

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 - 4. Abiotic Factor Data (Temperature, Sunlig Humidity, etc.) (**Tabulate!**)
 - 5. Dangers/Problems/Issues (THIS IS THE IMPORTANT THING YOU NEED!!!)
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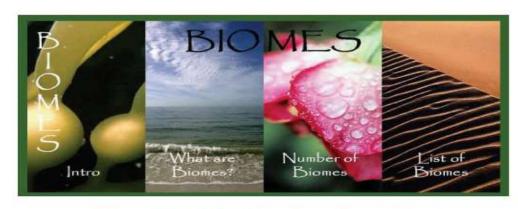












Welcome to the Kids Do Ecology Biomes Pages! Aquatic Biomes | Terrestrial Biomes | GAMES!

What are biomes?

Biomes are regions of the world with similar climate (weather, temperature) animals and plants. There are **terrestrial biomes** (land) and **aquatic biomes**, both freshwater and marine.

Would you like to know what the weather is like in different biomes around the world? How about the types of plants and animals that live in these biomes? Here you will find all sorts of information about the world's biomes.

How many biomes are there?

There is really no completely right answer to this question. Some people say there are only 5 major types of biomes: aquatic, desert, forest, grassland, and tundra. Others split biomes further. Forests are separated into rainforest, temperate forest, chaparral, and taiga; grasslands are divided into savanna and temperate grasslands; and the aquatic biome is split into freshwater and marine.

AQUATIC BIOMES

- Freshwater
- Freshwater wetlands
- Marine

TERRESTRIAL BIOMES:

- Tundra
- Dick
- Rainforest
 Savanna

Tech Chex Steps – Bits & Bytes to Biomes

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Biomes are not restricted to specific geographic regions, and they may not be exclusively inhabited by the same plant or animal species; thus, an individual biome type may appear on

multiple continents and feature similar but not identical plants and animals.

RECENT ARTICLES

Bell 2 Bell

- We work what in this class?!?!?!
 - BELL 2 BELL
- Every single precious SECOND of academic instructional time is thus utilized in this classroom!
- You students will thus be vocally quizzed EVERY DAY until I DISMISS you at the end of class (with a positive greeting and a thank-you of course!).





Bell 2 Bell

- We work BELL 2
 BELL in Mr. Floyd's
 class!
- I will thus quiz you about the science we learned today until the very end!
- Let us begin!

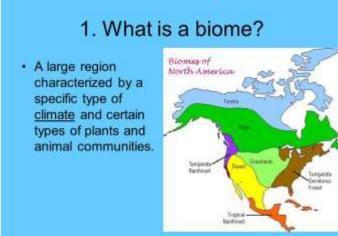


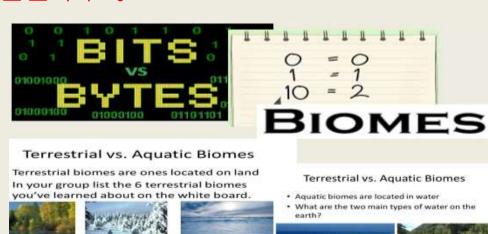


Tomorrow's Academic Objective and Plan

- Tomorrow you will RESEARCH the Biotic and Abiotic FACTORS unique to each BIOME!
- *HW = Finish Tech Chex HW!







Tomorrow's Academic Objective and Plan

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