

MONDAY, MAY 6th

DO NOW

There are about 1000 Watts per centimeter squared in 1 Watt per meter squared and 1,000,000 Watts per meter squared in 1 Megawatt per meter squared. These are units of Intenisty!

Know:

$$1000 \frac{W}{cm^2} = 1 \frac{W}{m^2}$$
$$1,000,000 \frac{W}{m^2} = 1 \frac{MW}{m^2}$$

Asked: How many $\frac{W}{m^2}$ are in $54 \frac{MW}{m^2}$?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = SKETCH your "Spirit Beast" and write what you think its ROLE is in nature and then DRAW the "Food Chain" on Pg. 22-23 & "Food Web" on Pg. 25 of your books!
2. Open books, WORK on today's **AO**!
3. ***HW** = Read & Complete Pg. 18-23!

TODAY'S ACADEMIC OBJECTIVE

Today you will FINALIZE your Environmental Trackers in order to STUDY Ecology in action within our WORLD!

TUESDAY, MAY 7th

DO NOW

There are just over 3 miles in 5 kilometers and Speed equals Distance divided by Time. These are equations of Motion!

Know: $3mi = 5km$

$$Speed = \frac{dist}{time}$$

Asked: What Distance in miles will a person run with a Speed of $9\frac{km}{hr}$ after a Time of 5 hours?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!

- Today's **QP** = QP BOOK REVIEW = REDEFINE the terms "Producer", "Decomposer", "Consumer", "Herbivore", "Carnivore", and "Omnivore" and then give an EXAMPLE of each!

2. Open books, **WORK** on today's **AO**!

3. ***HW** = Read & Do Pg. 24-29!

TODAY'S ACADEMIC OBJECTIVE

Today you will **REVIEW** and **REINFORCE** your Scientific Math skills in order to **PREPARE** for our future **QUIZ**!

WEDNESDAY, MAY 8th

DO NOW

There are just over 4 Joules in 1 calorie, around 250 calories in 1 BTU, and about 4 BTU in 1 kilocalorie. These are units of Energy!

Know: $4J \approx 1cal$
 $250cal \approx 1BTU$
 $4BTU \approx 1kcal$

Asked: How many Joules are in 4kcal?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
 - Today's **QP** = QP QUIZ PREP = REDEFINE the term "Population" and then LIST 4 Pop. INCREASING and 3 Pop. DECREASING events that could happen to a population of TURTLES!
2. Open books, **WORK** on today's **AO!**
3. ***HW** = STUDY FOR VOCAL QUIZ!

TODAY'S ACADEMIC OBJECTIVE

Today you will **REVIEW** and **REINFORCE** your Scientific Math skills in order to **PREPARE** for our future **QUIZ!**

THURSDAY, MAY 9th

DO NOW

Know: Both “Food Chains” and “Food Webs” represent the flow of energy in an ecosystem.

Asked: Which statement **best** explains how a “Food Web” more completely represents the flow of energy in an ecosystem than a “Food Chain”?

A: Food Chains include more energy

B: Food Webs show more relationships

C: Food Chains can change quickly

TODAY’S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!

▪ Today’s **QP** = QP VOCAL PREP = WRITE each of the 18 TERMS on Pg. 5 & 19 for today’s Vocal Quiz and then SKETCH a picture for each that conveys its MEANING!

2. Open books, **WORK** on today’s **AO**!

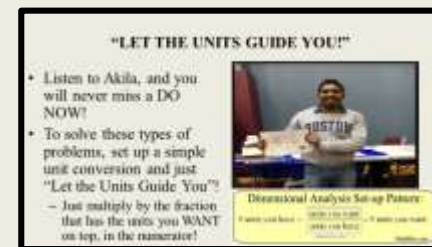
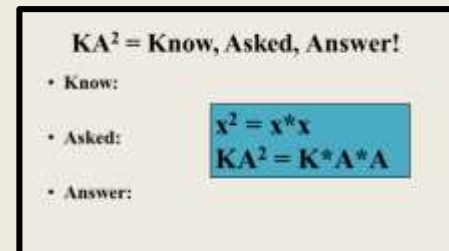
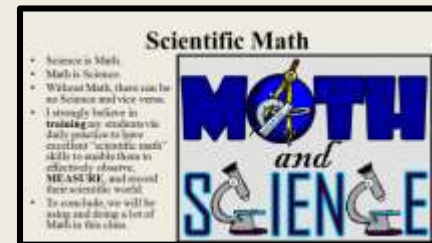
3. ***HW** = Read & Complete Pg. 30-35!

TODAY’S ACADEMIC OBJECTIVE

Today you will **JUSTIFY** your knowledge of Ecological **VOCAB** in order to **TOPPLE** today’s Vocal Quiz!

SCIENCE QUIZ ALERT

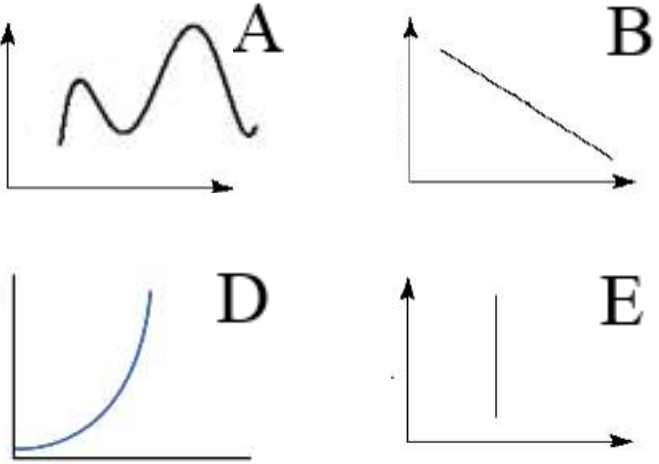
- Students, listen UP!!!
 - We will be having a **DO NOW** Quiz soon to assess our SCIENTIFIC MATH skills!
 - This quiz will require you to LET THE UNITS GUIDE YOU by solving various SCIENTIFIC MATH problems!
 - You are responsible for NOT ONLY finding the answer but ALSO using KA^2 format as well!



FRIDAY, MAY 10th

DO NOW

Know:



Asked: Which graph **best** shows a population growing out of control?

A: A B: C C: B

D: D E: J

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!

- Today's **QP** = QP BOOK REVIEW = DESCRIBE how a Pop. Can INCREASE or DECREASE, then REDEFINE the terms "Carrying Capacity" & "Limiting Factor", and then LIST 1 BIOTIC and 1 ABIOTIC factor that limits POPULATION size!

2. Open books, **WORK** on today's **AO**!

3. ***HW** = Read & Do Pg. 36-41!

TODAY'S ACADEMIC OBJECTIVE

Today you will **OBSERVE** and **IDENTIFY** factors that determine a Population's **SIZE**!

Tech Chex Steps – Citizen Science

1. FIRST, take out your DEVICE, and head on over to the following website!
 - <https://www.zooniverse.org/projects>
- If you do not have a DEVICE, don't worry! You can borrow one of these LAPTOPS!
2. Next, LOOK UP to learn just what “Citizen Science” is and how we'll be using it to learn about POPULATION DYNAMICS!
3. Your job is to CONTRIBUTE to a scientific study related to **POPULATION DYNAMICS**, so **choose wisely** from the available projects!
4. Finally, use your Citizen Science Adventure to ANSWER the HW Problems and Questions!



Tech Chex –HW Problems and Questions

1. What Citizen Science Project did you choose?
What organism did it involve, and what task did it require you to do? Why did you pick this one?
2. *How does your selected Citizen Science Project relate to what we've been learning about Population Dynamics (aka Carrying Capacity, Limiting Factors, Competition, and Cooperation)!*
3. Create an illustrative diagram detailing what your Citizen Science Project was about and asked you to do!

Tech Chex –HW Problems and Questions

4. Tiger Sharks live near Sea Turtles. Make a GRAPH to show the relationship between the populations of each species! (**Put the TIME on the **x-axis** and make TWO **y-axes**, one for the # of Sea Turtles and one for the # of Tiger Sharks!*)

Year	# of Sea Turtles	# of Tiger Sharks
1950	400	25
1960	500	23
1970	1200	20
1980	1000	40
1990	1300	15
2000	700	25
2010	500	30
2020 (<i>projected</i>)	900	25

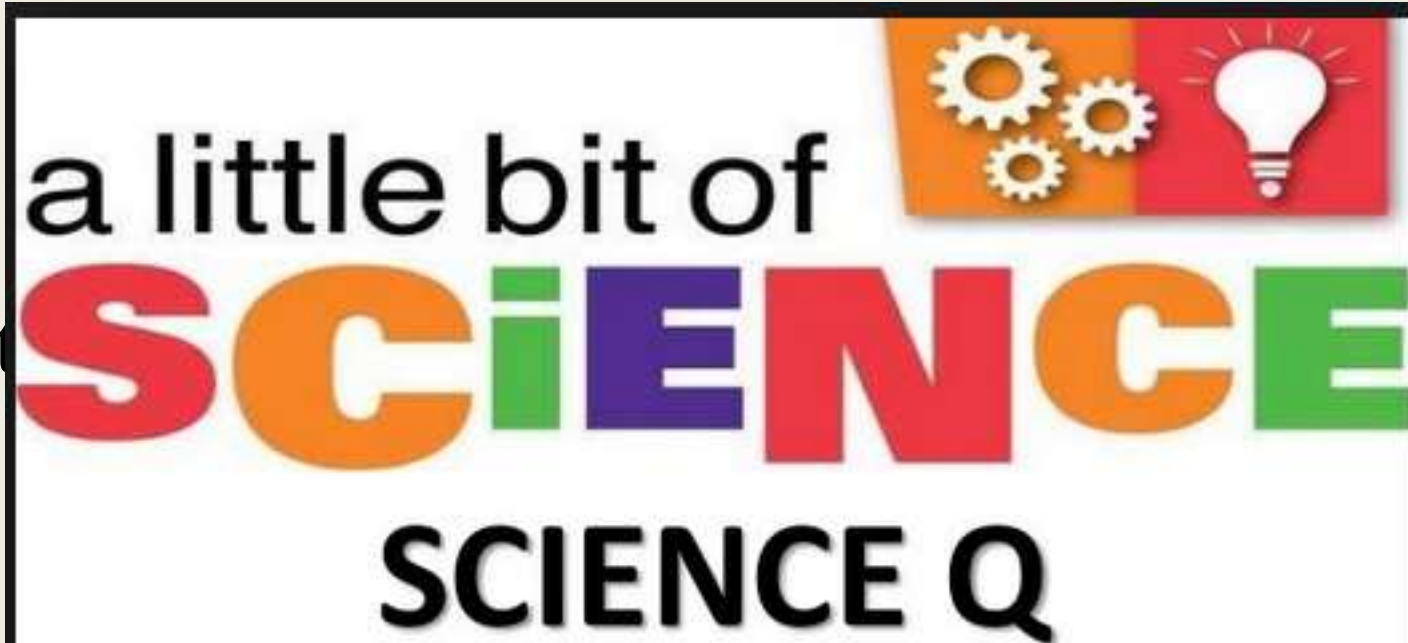
Tech Chex –HW Problems and Questions

5. Write an EXPLANATION as to why Sea Turtle and Tiger Shark populations tends to increase and decrease the way it does, and then GRAPH the following data regarding the population of a NEW Species of SEA TURTLE recently introduced to the area!

Year	# of New Species Sea Turtles
2006	0
2008	4
2010	16
2012	256
2014	536
2016	214
2018	278
2020 (<i>projected</i>)	256

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!

