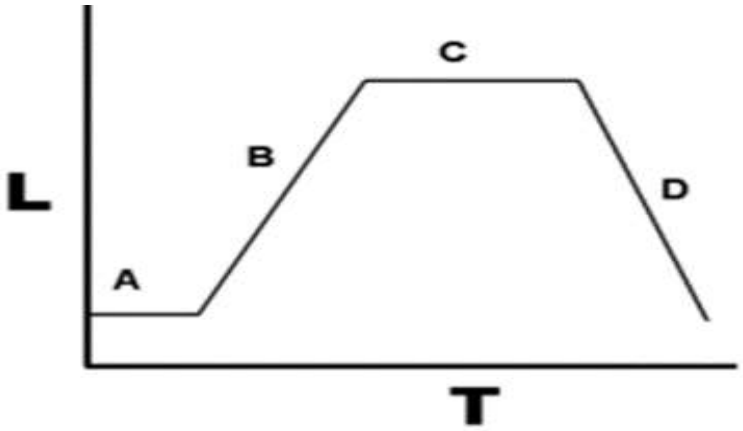
MONDAY, MAY 13th

DO NOW

Know:



Asked: Which part of the graph **most likely** shows a massive die-off of Lemmings?

A: D **B:** C **C:** B **D**: A **E:** T

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
   - Today's **QP** = CREATE a GRAPH for the following Mortality DATA!

% of MAX LIFE SPAN	LICHENS LEFT	SNAILS LEFT	CHIMPS LEFT
25%	40	40	40
50%	20	4	34
75%	5	2	4

2. Open books, WORK on today's **AO!**
3. ***HW** = Finish Tech Chex HW!

TODAY'S ACADEMIC OBJECTIVE

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

TUESDAY, MAY 14th

DO NOW

- In your notebooks, to be checked, solve this problem…

There are 18 Joeys in a Pouch, 19 Pouches in a Roo, and 4 Roos in a Kang. These are units of Population Dynamics!

Know: $18joeys = 1pouch$

$19pouch = 1roo$

$4roo = 1kang$

Asked: How many Joeys are in 2 Kang?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
   - Today's **QP** = CREATE a GRAPH for the following Ecology DATA!

YEAR	# OF LADYBUGS	# OF APHIDS
1958	40	5000
1988	85	2500
2018	35	4000

2. Open books, WORK on today's **AO!**
3. ***HW** = Read & Do Pg. 42-45!

TODAY'S ACADEMIC OBJECTIVE

Today you will GRAPH Ecological Data in order to ANALYZE the relationships between POPULATIONS!

WEDNESDAY, MAY 15th

DO NOW

- In your notebooks, to be checked, solve this problem…

There are 1000 grams per cubic meter in 1 gram per liter and 1000 grams per liter in 1 gram per cubic centimeter. These are units of Population Density!

Know:

$$1000\frac{g}{m^3} = 1\frac{g}{L} \qquad 1000\frac{g}{L} = 1\frac{g}{cm^3}$$

Asked: How many grams per cubic centimeter ($\frac{g}{cm^3}$) are in 5,000,000,000 grams per cubic meter ($\frac{g}{m^3}$)?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
   - Today's **QP** = GRAPH this DATA!

YEAR	# of FROGS	# of DEER
1980	4	4
1990	400	20
2000	200	35
2010	350	33
2020	190	38

2. Open books, WORK on today's **AO!**
3. ***HW** = Read & Do Pg. 42-45!

TODAY'S ACADEMIC OBJECTIVE

Today you will GRAPH Ecological Data in order to ANALYZE the relationships between POPULATIONS!

THURSDAY, MAY 16th

DO NOW

- In your notebooks, to be checked, solve this problem…

There are 4840 square yards in 1 acre and 2.5 acres in 1 hectare. These are units of Ecological Area!

Know:

$$4840yd^2 = 1ac \quad 2.5ac = 1ha$$

Asked: How many square yards are in 14 hectares?

TODAY'S PLAN

1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
   - Today's **OP** = GRAPH this DATA!

POP. DENSITY (individuals per km²)	HOGS ALIVE	ZEBRAS ALIVE	MOSQUITOS ALIVE
5	50	60	550
20	42	85	590
60	29	95	540
100	16	80	560
140	0	2	550

2. Open books, WORK on today's **AO!**
3. ***HW** = Read & Do Pg. 46-47!

TODAY'S ACADEMIC OBJECTIVE

Today you will GRAPH Ecological Data in order to ANALYZE the relationships between POPULATIONS!

FRIDAY, MAY 17th

DO NOW

- In your notebooks, to be checked, solve this problem…

Know: Work on your Scientific Math DO NOW QUIZ Review Problems!

Asked: Work on your Scientific Math DO NOW QUIZ Review Problems!

TODAY'S PLAN

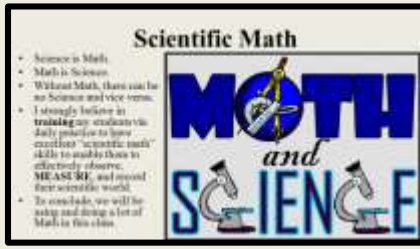
1. Do and review the **DO NOW** and **Qualitative Prompt (QP)**!
   - Today's **QP** = Work on your Scientific Math DO NOW QUIZ Review Problems!
2. Open books, WORK on today's **AO!**
3. ***HW** = FINISH Scientific Math DO NOW QUIZ Review Problems and CHECK Your Grades on the Portal!

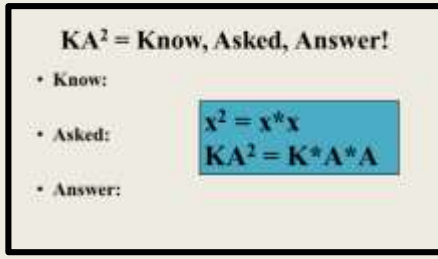
TODAY'S ACADEMIC OBJECTIVE

Today you will PRACTICE "Letting the Units Guide You" in order to PREPARE for our upcoming SCIENTIFIC MATH QUIZ!

SCIENCE QUIZ ALERT

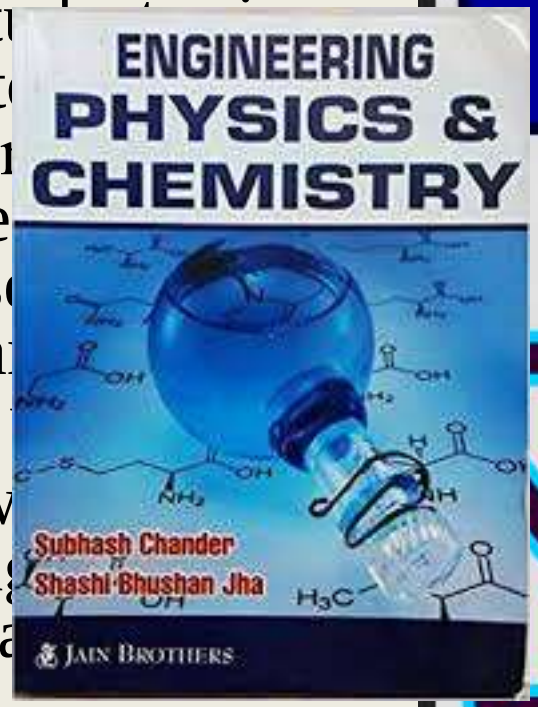
- Students, listen UP!!!
  - We will be having a DO NOW Quiz soon to assess our SCIENTIFIC MATH skills!
  - This quiz will require you to LET THE UNITS GUIDE YOU by solving various SCIENTIFIC MATH problems!
  - You are responsible for NOT ONLY finding the answer but ALSO using KA^2 format as well!

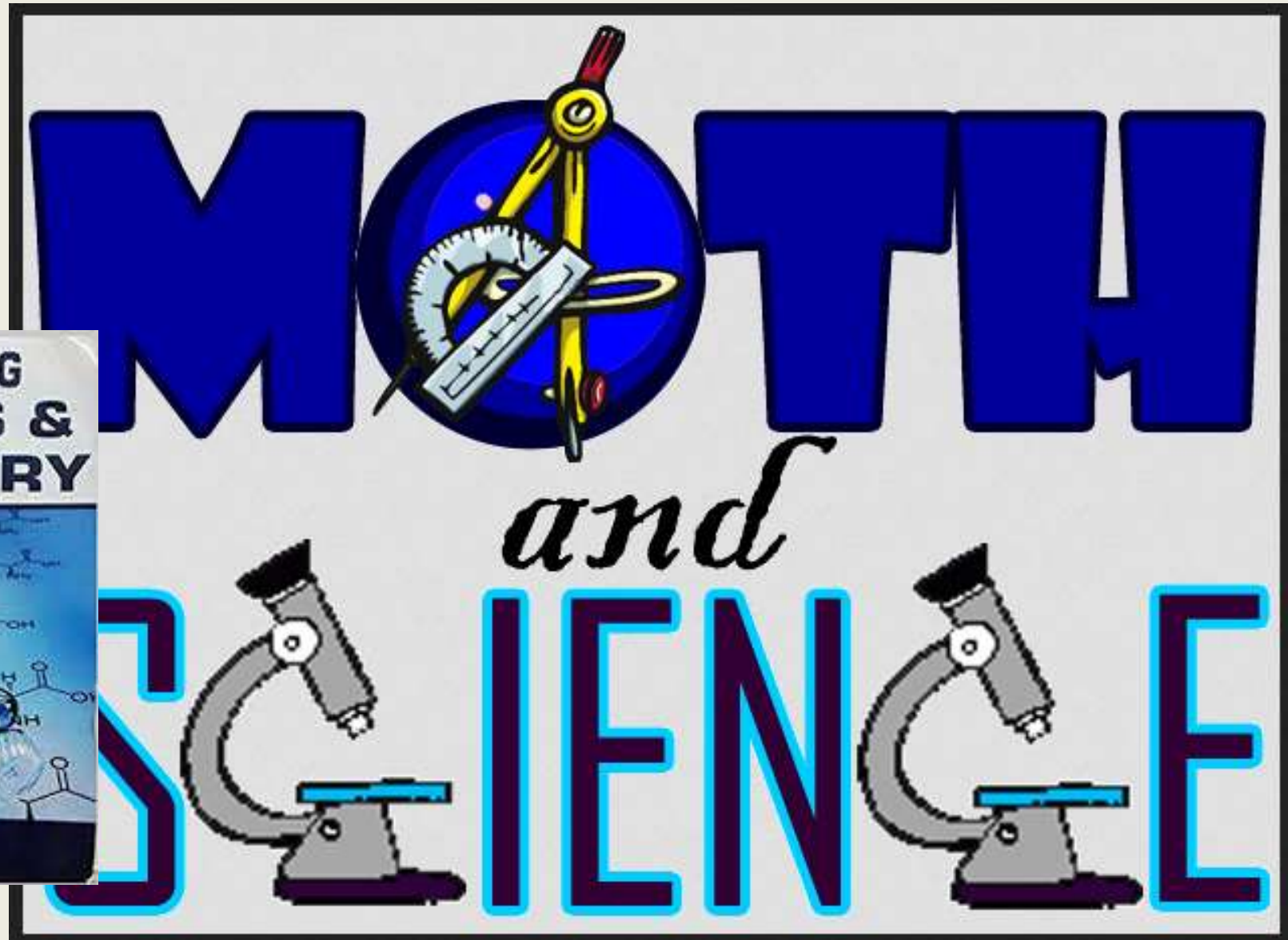




Scientific Math

- Science is Math.
- Math is Science.
- Without Math, there can be no Science and vice versa.
- I strongly believe in **training** my st
  daily practice t
  excellent "scie
  skills to enable
  effectively obs
  MEASURE, a
  their scientific
- To conclude, w
  using and doing
  Math in this cla





KA^2 = Know, Asked, Answer!

- **Know:**
- **Asked:**
- **Answer:**

$x^2 = x*x$

$KA^2 = K*A*A$

DO NOW – Units of Mass

There are 1000 milligrams in 1 gram and 100 grams in 1 kilogram. These are units of Mass!

Know:

$$1000mg = 1g \qquad 1000g = 1kg$$

Asked: How many kilograms are in 8 million milligrams?

What is KA² format? This is an example of a "1-pointer" on a DO NOW!

- **Know:**

$$1000mg = 1g \qquad 1000g = 1kg$$

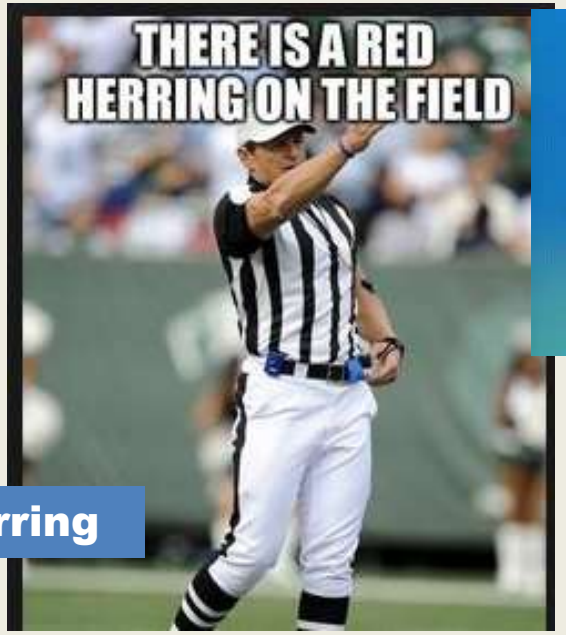
$$\frac{1000mg}{1g} \qquad \frac{1g}{1000mg} \qquad \frac{1000g}{1kg} \qquad \frac{1kg}{1000g}$$

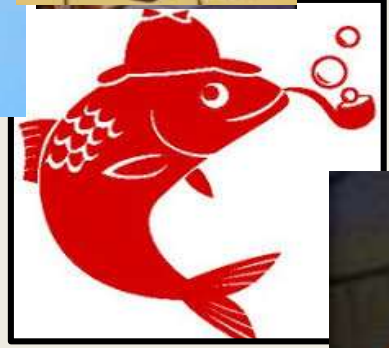
- **Asked:** How many kilograms are in 8 million milligrams?
- **Answer:** $\mathbf{8,000,000\cancel{mg} * \frac{1g}{1000\cancel{mg}} = 8000\cancel{g} * \frac{1kg}{1000\cancel{g}} = 8kg}$

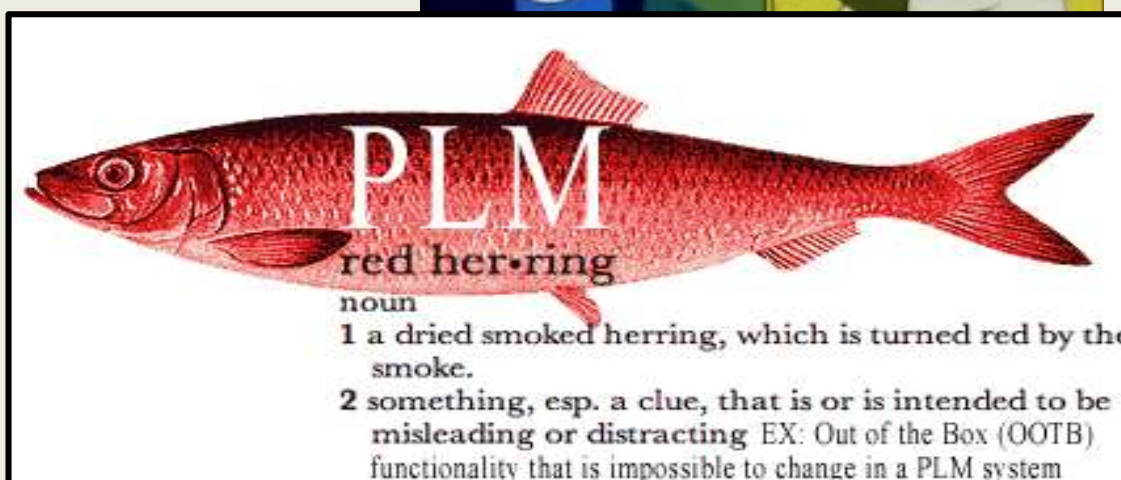
DO NOW – Never Forget to Listen to Akila!

- To solve these problems, just multiply by the fraction with the units you want on top and "*Let the Units Guide You*"!
  - Example: $\mathbf{84\cancel{in} * \frac{1ft}{12\cancel{in}} = 7ft}$

DO NOW – WATCH OUT for RED HERRINGS!

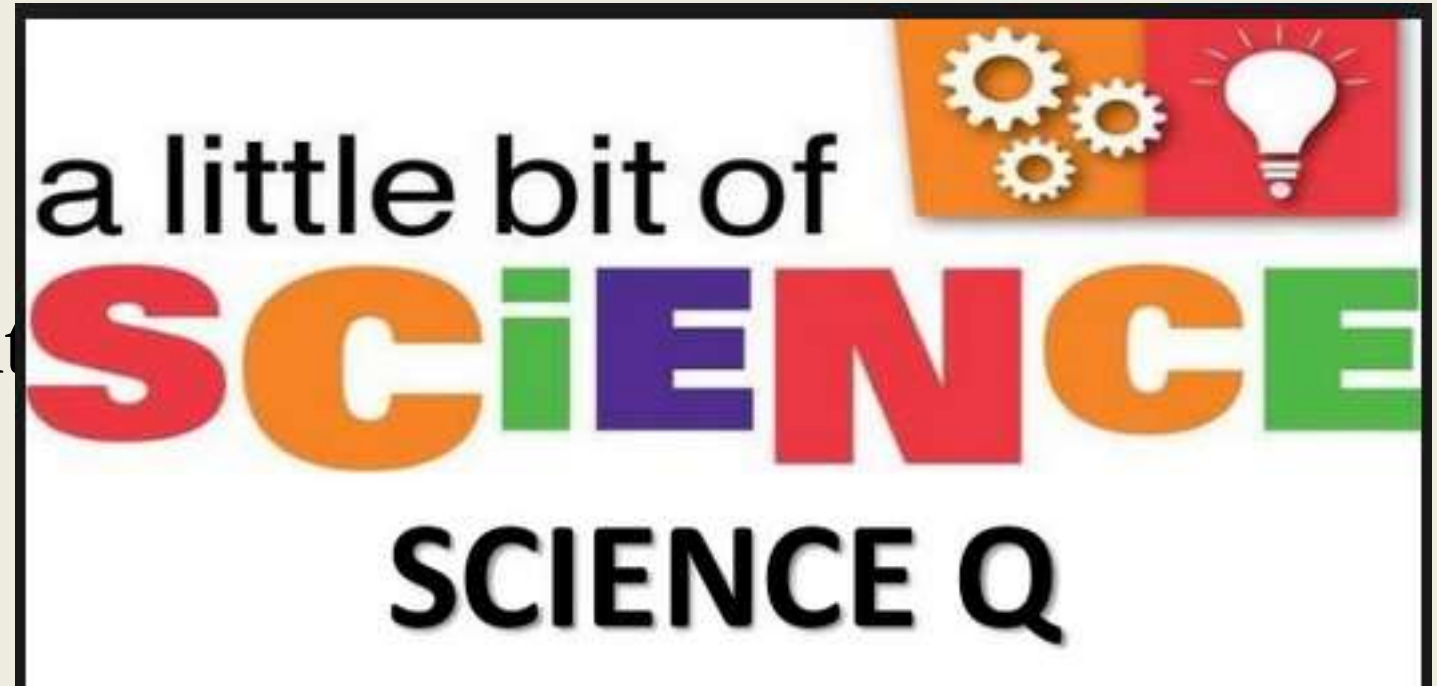






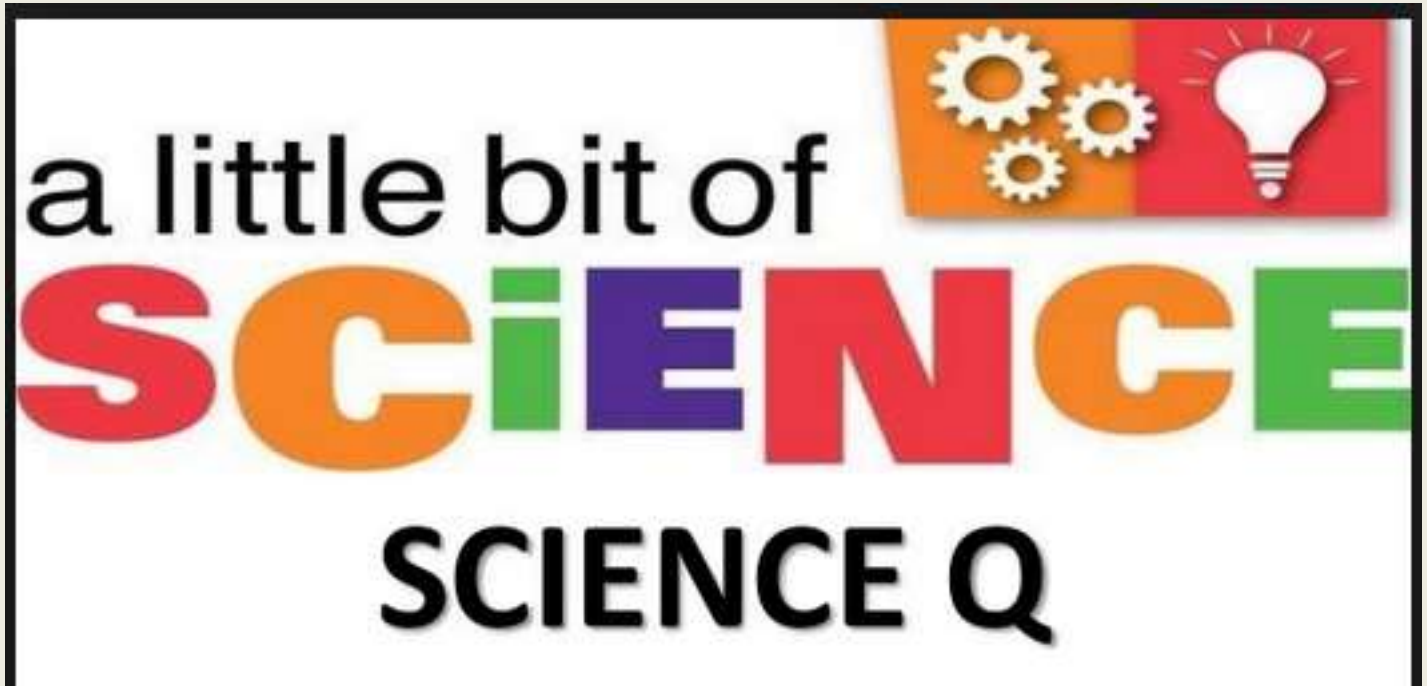
Bell 2 Bell

- 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 PRACTICE "Letting the Units Guide You" in order to PREPARE for our upcoming SCIENTIFIC MATH QUIZ!
- *HW = FINISH Scientific Math DO NOW QUIZ Review Problems!