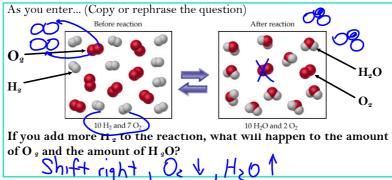
Monday, March 9th



<u>Learning Target</u>: I can use observations in lab to determine we a reaction shifts from a stress.

Homework: Study for Test



EXAM Wed, March 11th --> so all assignments due Wed.

Big Idea: Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.





3rd period

- LAB 17: Equilibrium (45 min)
- Today: Experiments 1 and 2 + Questions
- Tomorrow: Experiment 3 and Review for Exam

Important Lab Notes

- --<u>Label</u> all test tubes and beakers as told with masking tape and a marker.
- --NO CHEMICALS DOWN THE DRAIN.
- --The leftover solution in experiment 1 can be put aside on the counter with your names on it for tomorrow.
- --Wash all glassware before and after use.
- --Wash your hands before leaving the room.

Tix out the door (Don't forget your name.)



Which statement describes a chemical reaction at equilibrium?

- (1) The products are completely consumed in the reaction.
- (2) The reactants are completely consumed in the reaction.
- (3) The concentrations of the products and reactants are equal.
- (4) The concentrations of the products and reactants are constant.

Tuesday, March 10th



Learning Target: I can understand that systems in nature favor high entropy and low energy.

Homework: Study review packet for test tomorrow

As you enter... (Copy or rephrase the question)

In lab yesterday... identify one chemical you added to your solution and the change in color your observed.

Explain the color change, if there was one.



EXAM tomorrow --> so all assignments due tmw

Big Idea: Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.





3rd period

- Finish LAB 17: Equilibrium (50 min) 4th period
- Quick Entropy Notes (15 min)
- Jeopardy Review Game (30 min)

Important Lab Notes

- --<u>Label</u> all test tubes and beakers as told with masking tape and a marker.
- --NO CHEMICALS DOWN THE DRAIN.
- --Wash all glassware before and after use.
- --Wash your hands before leaving the room.

Tix out the door (Don't forget your name.)



Which statement describes a chemical reaction at equilibrium?

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Notes on Entropy

An object or system will naturally proceed from a state of order to disorder (will break down, become unorganized). Disorder is also known as

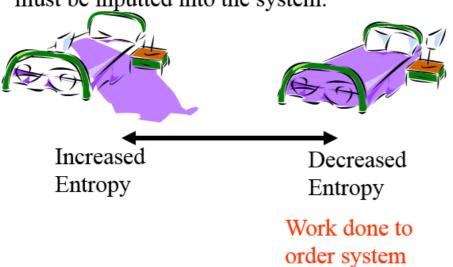
ENTROPY

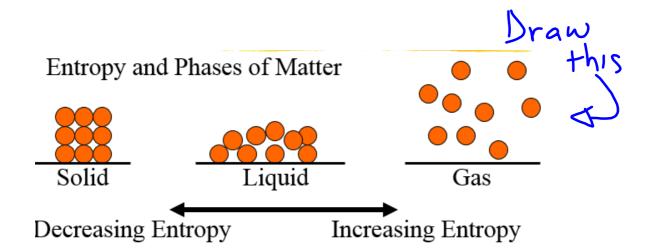




Systems in nature favor HIGH entropy and LOW energy.

To make a system more ordered, energy or work must be inputted into the system.





Thursday, March 12th



Learning Target: I can determine what information I will need arto learn to be successful in the acids and bases unit.

As you enter... (Copy or rephrase the question)

If you need to make up the test from yesterday, tell me right away.

Question: What do you know about acids and bases?

What are the differences between them?

Reminder: I will be after school until 4 pm.

Big Idea: Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.





3rd period

- Review Exam (20 min)
- New unit: Acids and Bases
- Dissecting Regents Questions (30 min)

4th period

- Intro to Acids and Bases Packet (45 min)
- Finish early... Make up work
- 1. Read & Annotate front page. 2. Answer Questions with a partner.
- 3. Hand in when done.

Tix out the door (Don't forget your name.)



What is the difference between an acid and a base?

Acid

Base

H30+ is produced

Product

Gets H

H in front

H is given away

Not an acid lbase

But it plays the role

Of an acid lbase

5

Question from yesterday's exam...

For a given chemical reaction, the addition of a catalyst provides a different reaction pathway that

- A) decreases the reaction rate and has a higher activation energy
- B) increases the reaction rate and has a lower activation energy
- C) decreases the reaction rate and has a lower activation energy
- D) increases the reaction rate and has a higher activation energy

What information did we need to know in order to answer this question correctly?

What is a catalyst! How a reaction works What is activation energy?

Annotate this question...

Which statement describes one acid-base theory?

- (1) An acid is an H⁺ acceptor, and a base is an H⁺ donor.
- (2) An acid is an H^+ donor, and a base is an H^+ acceptor.
- (3) An acid is an $\underline{H^-}$ acceptor, and a base is an
- H^- donor. (4) An acid is an H^- donor, and a base is an $H^$ acceptor.

What information do we need to know in order to answer this question correctly?

What is an acid-base What's an Hamptor and donor? What's the difference between + 3 - H.

On the lab tables are previous regents exam questions on acids and bases.

- Do not try and answer the questions.
- In a group of 3-4, annotate the questions and determine what information we will need to learn about in order to answer these questions correctly. I will ask you to share out after.

**Purpose of Activity: Take charge of your own learning and see what concepts you will be tested on before we begin the unit. It will give you a better understanding of what you are expected to learn.

What is... | What does ...
Coloum | It mean to produce a solution? · Calcium

· Concentration

· an aqueous
| Solution | How does...
· hydronium | process affect an acid concentration

acid-base theory no molarity titration

·electrolyte

Archenious acid?
Phenophthalein?

Friday, March 13th



<u>Learning Target</u>: I can differentiate between acids and bases.

Homework: n/a

As you enter... (Copy or rephrase the question)

If you need to make up the test from Wednesday, tell me right away.

Classify the following as an acid or a base and explain:

Reminder: Beware of the clock. It lies.

Big Idea: Matter is made up of particles whose properties determine the observable characteristics of matter and its reactivity.





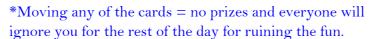
3rd period

- Acid/Base Scavenger Hunt (30 min)
- Exit Tix (5 min)

Find all of the acids and bases scattered around the classroom. If you complete the entire sheet correctly, you will receive a prize. First one done will receive a free classwork grade.

Where to look...

- -Look high, look low.
- -Not higher then the cabinets.
- -Not within drawers or cabinets.
- -Only within the classroom.





Tix out the door (Don't forget your name.)



Which compounds are classified as Arrhenius acids?

- (1) HCl and NaOH
- (2) HNO₃ and NaCl
- (3) NH₃ and H₂CO₃

(4) HBr and H₂SO₄

for full credit.

Explain WHY