Unit 8 NAME Class Work 3/29/14

8.10 Factors Affecting Gases

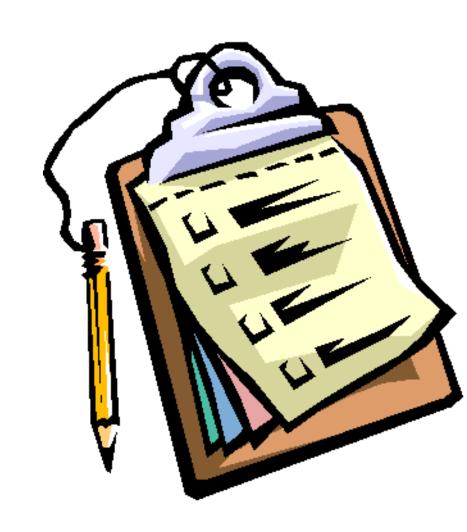
SPARK: (take out 8.9 HW and make sure you have a calculator)

- 1. What is standard pressure?
- 2. Where on the reference sheet are the formulas for concentration?
- 3. What is volume?

Objective

Agenda:

- SPARK/Objective
- Grit to Greatness
- Hook
- Notes
- Practice
- Homework



Grit to Greatness!

- How can you demonstrate grit in the next week?
- And the Grit to Greatness winner is...

Where are we?

UNIT 8: Solutions and Gases

Solutions

Solute

Solvent

Saturation

Solubility

Polarity

Concentration

Colligative Properties:

Solutes that affect physical

behavior of solvent

Boiling Point Elevation

Freezing Point Depression

Gases

Ideal Gases

HOOK

- Esther Conwell = Experimenter
 - Depress the plunger (push the syringe in) while hold the blue cap
- Marie Curie = Observer
 - Observe the marshmallow as the plunger is being pushed in and pulled out

Observations:

Why do you think this happened?

Think-Write-Pair-Share

What is the relationship between pressure and volume?

Think-Write-Pair-Share

Let's Apply This

This relationship has a name...



Boyle's Law:

$$P_1V_1 = P_2V_2$$

1 = initial

2 = final



Objective: SWBAT analyze how pressure affects volume in gases

Document Camera Guided Practice

Exit Ticket

- Complete your 8.10 Exit Ticket 4 minutes
- Use your NOTES, not your neighbor!
- Flip your Exit Ticket over when you are finished

Remember:

G- given

U- unknown

E- equation

S- substitute

S-solve!

Closing Question

 Can you think of another way that this relationship can be tested or modeled?
(answer on the back of your exit ticket)

 Choose one of these different ideas and describe what would happen if you did this.

HOMEWORK

Complete 8.10 Classwork/Homework Sheet!

- Watch video posted on the website for extra help!

Continue to work on your Unit 8 KEY QUESTIONS

- Due on Monday!

Finish your ThinkReady (due on Monday!)