#### HAPPY NEW YEAR!!!!

#### GO TO THE FOLLOWING WEBSITE ON YOUR

#### **SMART PHONE, TABLET OR LAPTOP**



1. 10

# TURN & TALK . . . . REPORT OUT

# TURN & TALK, COME TO A CONSENSUS ON A TYPE of formative assessment that you use successfully. In five minutes, you will share with the group.

# FORMATIVE ASSESSMENTS TO DRIVE INSTRUCTION

**OHS STYLE!!** 

# TO START CLASS . . . .

#### **BELLRINGERS**

- **ALWAYS WRITING**
- SOMETIMES KINESTHETIC
- USUALLY COLLABORATIVE
- CONCEPTUAL
- RELEVANT TO DAILY LIFE

- **DISCREPANT EVENTS**
- **GETTING THE "JOKE"**

#### **ALWAYS WRITING**

A. A.

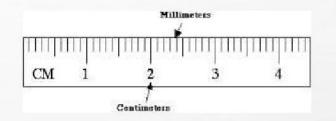
#### THINK ABOUT A MOVIE YOU HAVE SEEN THAT HAS HAD "SCIENCE" INCORPORATED INTO THE STORY. (DESCRIBE THE MOVIE YOU ARE THINKING ABOUT)

**WAS THE "SCIENCE" REAL? OR WAS IT SCIENCE FICTION?** 

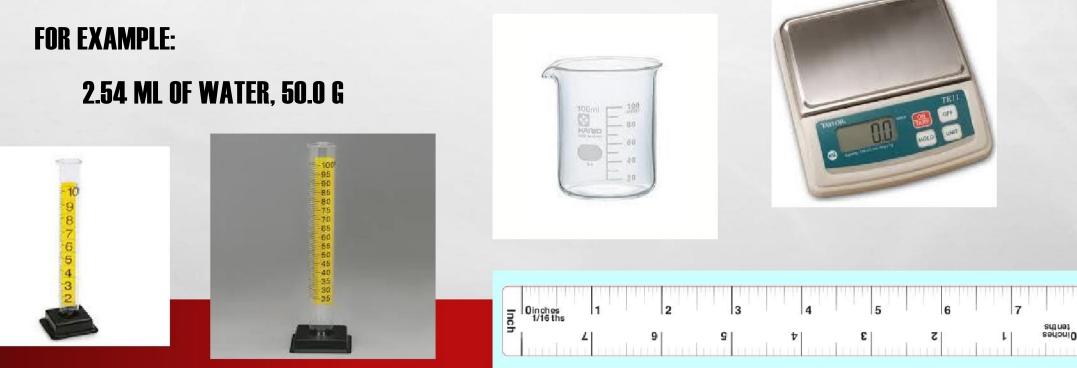
**PROVIDE EVIDENCE TO SUPPORT YOUR CLAIM!!(TIER 2 WORDS)** 

#### **KINESTHETIC**

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#### CALL OUT DIFFERENT MEASUREMENTS AND STUDENTS HOLD UP PICTURES OF THE MEASUREMENT TOOL TO USE.



### **KINESTHETIC**

MAKE SURE YOU HAVE RECEIVED A NOTE CARD AS YOU WALKED IN.

- CLASSIFY YOURSELF AS EITHER A PHYSICAL PROPERTY OR A CHEMICAL PROPERTY BY STANDING NEXT TO THE CORRECT LABEL.
- AS A GROUP, COME TO A CONSENSUS.
- BE READY TO SUPPORT YOUR CLAIM!!

# **COLLABORATIVE, INTRODUCTION**

BE SURE I GAVE YOU YOUR CARD WHEN YOU ENTERED (THE CARD HAS AN ELEMENT ON IT).

• USING THE CLUE ON THE CARD YOU WERE GIVEN (AND ANY RESOURCES IN THE ROOM) TO FIND YOUR ASSIGNED SEAT.

• THE CLASS WHO GETS IT 100% CORRECT THE FASTEST WILL WIN A PRIZE!!

#### **CONCEPTUAL, MATHEMATICAL REASONING**

#### WHICH OF THE FOLLOWING OBJECTS WOULD HAVE A DIAMETER CLOSEST TO

1.2742 X 107 METERS?



EARTH

WHAT REASONING DID YOU USE TO COME TO YOUR CONCLUSION? (EXPLAIN PLEASE!)

#### **CONCEPTUAL, APPROPRIATE EVIDENCE**

WHEN A MARBLE IS DROPPED INTO A BEAKER OF WATER, IT SINKS TO THE BOTTOM. WHICH OF THE FOLLOWING IS THE BEST EXPLANATION?

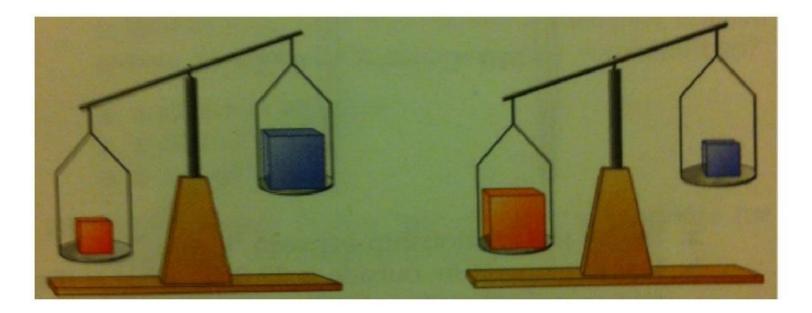
- **a.** The surface area of the marble is not large enough for the marble to be held up by the surface tension of water.
- **D.** THE MASS OF THE MARBLE IS GREATER THAN THAT OF THE WATER.
- **C** THE MARBLE WEIGHS MORE THAN AN EQUIVALENT VOLUME OF THE WATER.
- THE FORCE FROM DROPPING THE MARBLE BREAKS THE SURFACE TENSION OF THE WATER. THE MARBLE HAS
- **GREATER MASS AND VOLUME THAN THE WATER.**

A. A.

JUSTIFY THE ANSWER YOU PICK IN AT LEAST ONE COMPLETE SENTENCE.

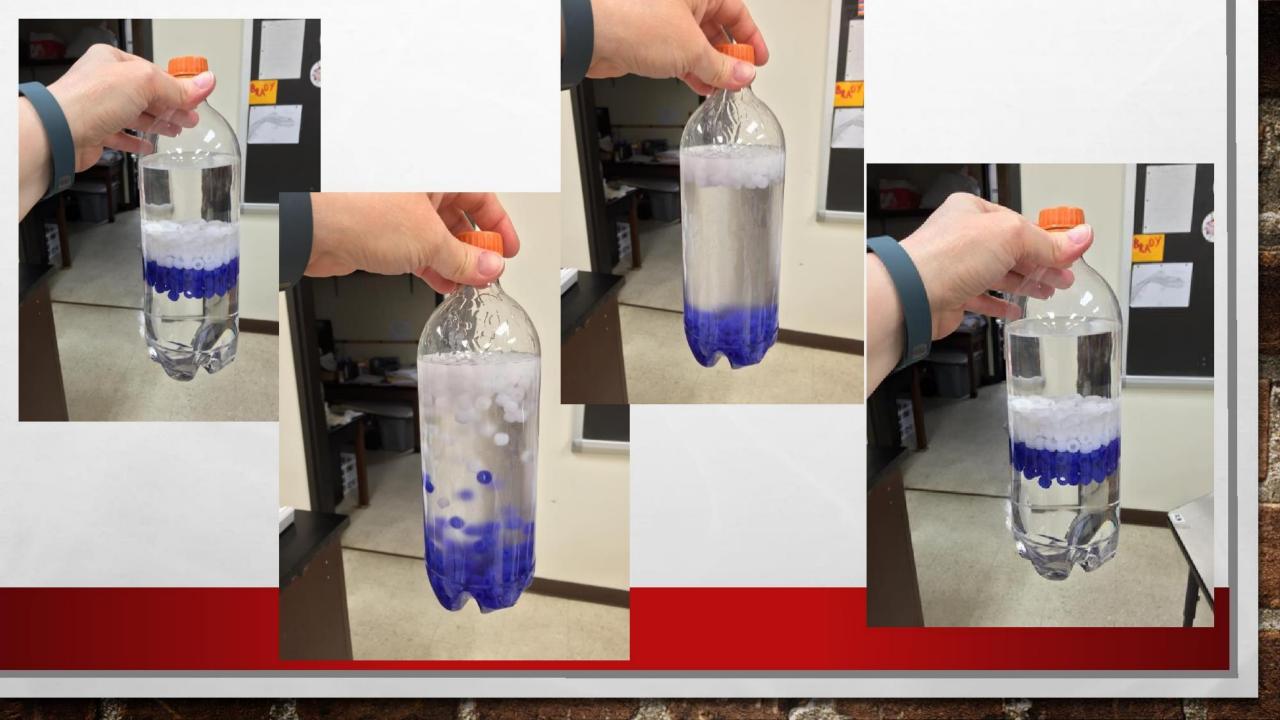
#### **CONCEPTUAL VISUALIZATION & REASONING**

For each of the following figures decide which block is more dense: the light block or the dark block, or it cannot be determined (The darkest block is on the right in each scale). Explain your answers.



#### **CONCEPTUAL DEMONSTRATION CHALLENGE**

- LOOK AT THE BOTTLE WITH 2 SETS OF BEADS FLOATING IN THE CENTER. WHAT WOULD HAPPEN IF YOU SHAKE IT?
- SHAKE THE BOTTLE WITH 2 SETS OF BEADS FLOATING IN THE CENTER. WHAT DOES HAPPEN?
- WHY? MAKE A CLAIM AND SUPPORT IT WITH EVIDENCE.



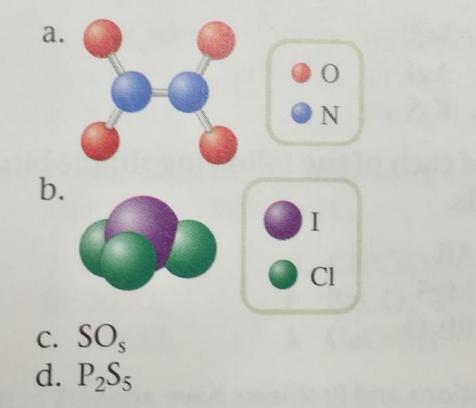
# **EXPLAINING A SCIENTIFIC JOKE:**

EXPLAIN WHY STEW'S SHIRT IS SCIENTIFICALLY CORRECT: TECHNICALLY ALCOHOL IS A SOLUTION.

- **1)** DO NOT YELL OUT ANSWERS. NO POINTS IF YOU DO.
- 2) YOUR ANSWER MUST HAVE THE FOLLOWING DEFINED & BE PRECISELY CORRECT: PURE SUBSTANCE, MIXTURE, SOLUTION. YOU MUST USE THOSE DEFINITIONS TO DEMONSTRATE WHY STEW'S SHIRT IS CORRECT SCIENTIFICALLY.
- **3)** WRITE YOUR ANSWER IN PARAGRAPH FORM ON A HALF SHEET OF PAPER (EVERYONE AT THE TABLE CONTRIBUTES).
- **4)** FIRST GROUP FINISHED GETS FIRST CHANCE AT POINTS. IF NOT COMPLETELY CORRECT, IT GETS RETURNED & THE GAME IS STILL ON.
- **5)** NO PHONES. PHONES MUST BE IN THE PHONE BOX.

#### **VISUALIZATION OF NOMENCLATURE**

7. Name each of the following compounds.



CHICAGE AND STREET

-

#### **DAILY LIFE IN SLOW MOTION AS A HOOK**

"The whole of science is nothing more than a refinement of everyday thinking."

**Albert Einstein** 

How does popcorn pop?



#### **DISCREPANT EVENT FROM DAILY LIFE:**

I HAVE A MAGNET THAT WEIGHS 8.63 GRAMS. I HAVE A 50 ML GRADUATED CYLINDER FILLED TO THE MARK WITH 50 ML OF WATER (ALSO 50 GRAMS OF WATER). WILL THE MAGNET SINK OR FLOAT? MAKE A CLAIM. SUPPORT IT WITH AN EXAMPLE OR TWO FROM YOUR DAILY LIFE.

#### HOW TO SEE WHAT CANNOT BE SEEN:

BELL RINGER: HOW COULD YOU COUNT THE MOLECULES IN A DRINK OF WATER? WHAT WOULD YOU NEED? LIST EVERYTHING.

and the Read and

CALCULATIONS TABLE: MASS OF DRINK OF WATER: MASS IN 1 MOLE OF WATER: MOLES IN DRINK OF WATER: MOLECULES IN 1 MOLE OF WATER: MOLECULES IN DRINK OF WATER:

# DURING CLASS . . ..

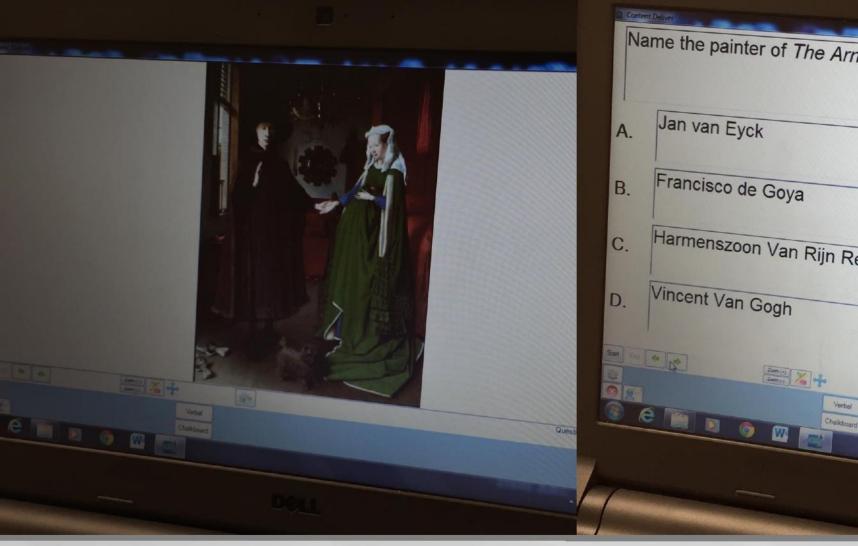
#### **E-RESPONDERS**

#### • WHITE BOARDS

- CLASSROOM FEUD-POWER POINT
- PENCIL/PAPER QUIZ
- **KINESTHETIC CHALLENGES (STOICHIOMETRY CHALLENGE)**

#### JEOPARDY GAME-MAKER

#### **E-RESPONDERS**

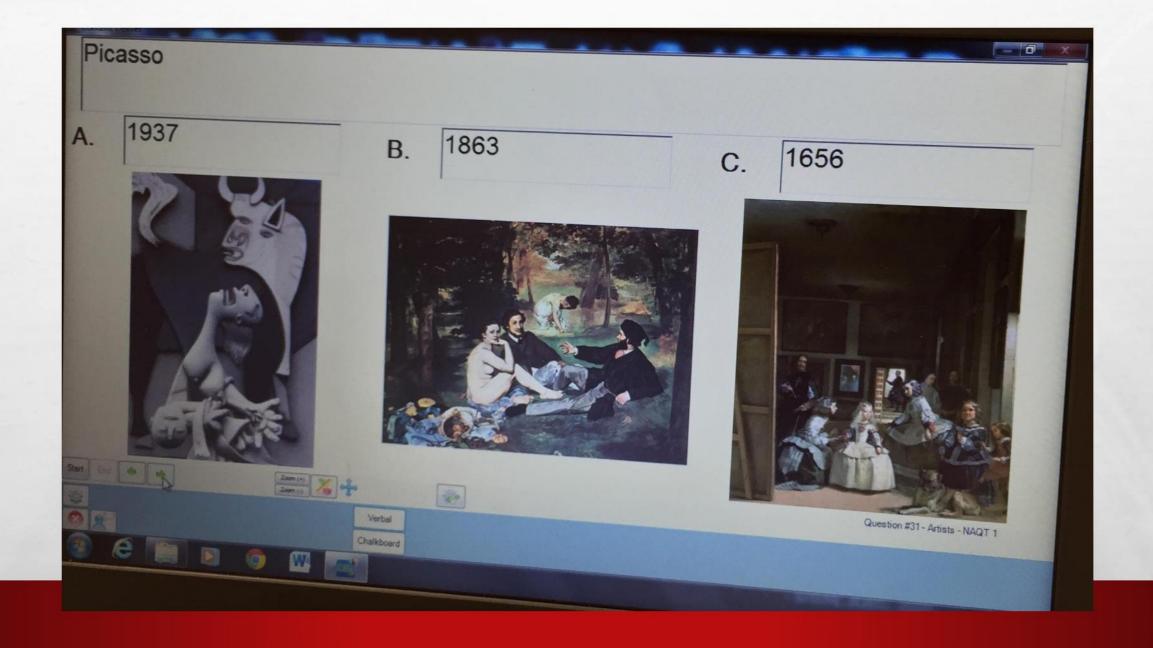


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Conte	mi Delver
Name the painter of The Arnolfini Wedding (1434).	
A.	Jan van Eyck
B.	Francisco de Goya
C.	Harmenszoon Van Rijn Rembrandt
D.	Vincent Van Gogh
	Verbal Chalibboard D D D D D D D D D D D D D D D D D D D
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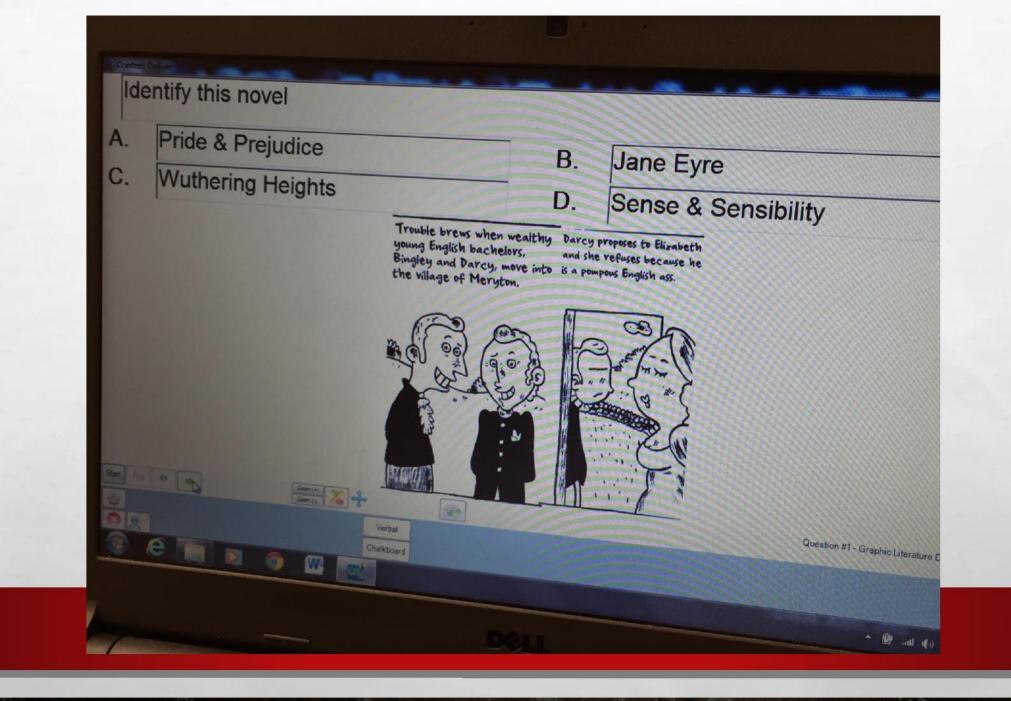
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#### **CLASSROOM FEUD**

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STATISTICS STR



#### **KINESTHETIC STOICH CHALLENGE**



#### **JEOPARDY GAME MAKER**

#### • <u>http://www.superteachertools.us/jeopardyx/</u>

A. A.

THE NEW AND IMPROVED VERSION OF THE JEOPARDY REVIEW GAME INCLUDES THE FOLLOWING FEATURES:

- SIMPLE INSERTION OF PICTURES ON QUESTION AND/OR ANSWER SLIDES
- FULL SUPPORT FOR SYMBOLS, SUCH AS EXPONENTS AND WINGDINGS STYLE FONTS
- BETTER SUPPORT FOR FOREIGN LANGUAGE QUESTION AND/OR ANSWER SLIDES
- SIMPLER VISUAL EDITING PROCESS
- EMBED ANYTHING IN YOUR QUESTION SLIDES, EVEN YOUTUBE VIDEOS, FLASH OBJECTS, ETC.
- SIMPLE SCOREKEEPING SYSTEM
- WORKS ON PORTABLEDEVICES SUCH AS SMARTPHONES, IPAD, AND IPOD TOUCH!

# **END OF CLASS**

EXIT SLIP • THINGS I LEARNED TODAY • THINGS I FOUND INTERESTING • QUESTIONS I STILL HAVE DOODLE IT

WRITE ABOUT IT

#### KAHOOT.IT

#### **POLLEVERYWHERE.COM**

#### **CORK BOARD**

**TWITTER BOARD** 

### **CORK BOARD**



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I would tell you a good chemistry joke but all of the good ones argon.

Formative assessments can be fun to for the students to do.

Formative Assessments are quick and to the point

ADDALES ADDALES ADDALES

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Formative Assessments let me know how I am going to teach in the next 50 minutes.

> How can I successfully implement formative assessments in my classroom?

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# **POLLEVERYWHERE.COM**

# YOU CREATE A POLL AT POLLEVERYWHERE.COM YOU OPEN THE POLL YOU CREATED IN CLASS STUDENTS USE THEIR PHONES TO TEXT A NUMBER WITH THEIR ANSWER

#### T SHOWS LIVE RESULTS

# **USE KAHOOT.IT FOR QUIZZES TOO!**

# CAN USE VIDEO CAN USE IMAGES

#### **CAN MAKE A FUN EXIT TICKET**

GO TO KAHOOT.IT ON YOUR PHONE, LAPTOP OR TABLET!

# RESOURCES

• HTTP://WWW.EDUTOPIA.ORG/GROUPS/ASSESSMENT/250941 (GIVES 56 EXAMPLES)

- HTTPS://WVDE.STATE.WV.US/TEACH21/EXAMPLESOFFORMATIVEASSESSMENT.HTML
- <u>HTTPS://GLOBALDIGITALCITIZEN.ORG/12-AWESOME-FORMATIVE-ASSESSMENT-EXAMPLES</u>

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DESCRIPTION STRATE

- <u>http://www.superteachertools.us/jeopardyx/</u>
- <u>https://getkahoot.com/</u>
- <u>https://kahoot.it/#/</u> •

#### HTTPS://PADLET.COM/

HTTPS://WWW.POLLEVERYWHERE.COM/