Unit 6 NAME

Class Work 1/20/14

# 6.3 Review of Formulas

SPARK take out homework 6.2 (grab a calculator!)

1. Calculate the percent composition of carbon in $C_2H_5OH$
2. The empirical formula of hexane is $C_3H_7$. Its molecular mass is 86.2 amu. What is the molecular formula of hexane?
3. What is the difference between an empirical formula and molecular formula

## Objective

SWBAT review the types of chemical formulas, GFM, percent composition and demonstrate mastery

Unit 6
Class Work

NAME
1/20/14

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Unit 6
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Unit 6
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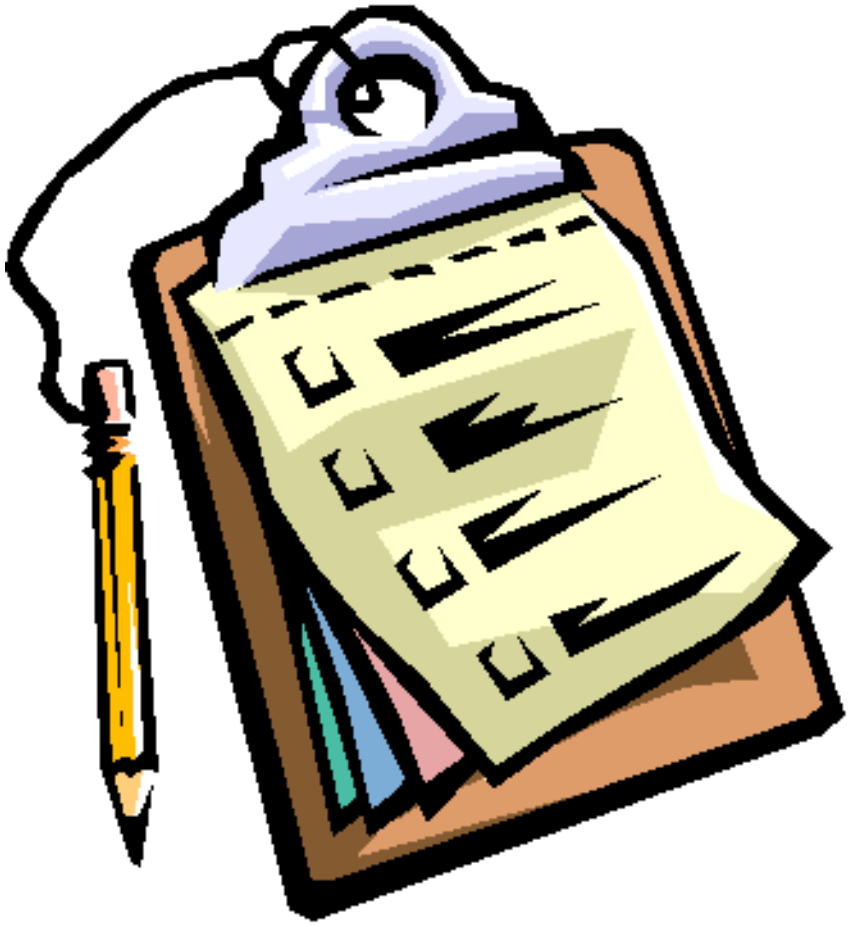
# Agenda:

- SPARK/Objective
- Announcements
- Practice
- Quiz
- Test Pass Back!
- Homework



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# Grit to Greatness Award Presentation

- What is grit?
- Why is it important to have grit in this chemistry classroom?
- Why is it important to have grit in life?
- G2G shout outs!
- Grit to Greatness Award Certificate goes to…

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# Review of 6.2

- Turn and Talk to your neighbors comparing your answers for your 6.2 homework sheet.
- If you disagree about an answer, discuss it!

Objective: SWBAT review the types of chemical formulas, GFM, percent composition and demonstrate mastery

# Answers from 6.2

1. (1)
2. (4)
3. (3)
4. (4)
5. (4)
6. $C_2H_4$
7. $C_4H_8$
8. $C_6H_8O_6$
9. $C_3H_6O_3$
10. (4)
11. (1)
12. Carbon = 27%, Oxygen = 73%
13. 40%
14. 22%
15. Aluminum = 16%, Oxygen = 56%
16. 13%
17. Oxygen = 41%, Phosphorus = 20%
18. (2)
19. (2)
20. (3)
21. 50%
22. 45%
23. 78% nitrogen versus 82% nitrogen

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# Grams Formula Mass Example

1. What is the grams formula mass of $Ca(OH)_2$?

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# Finding Empirical Formula Ex.

2. What is the empirical formula for the compound, $C_4H_8O_2Cl_2$?

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# Finding Molecular Formula Ex.

3. What is the molecular formula of a compound with an empirical formula of $BO_3$ and a molecular mass of 177 g?

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# Percent Composition Ex.

4. Antifreeze ($C_2H_6O_2$) is added to cars to keep them from freezing! What is the percent of oxygen in $C_2H_6O_2$?

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# Quiz

- Complete your Unit 6 quiz. You will have ten minutes.
- When you are finished, pick up a Unit 6 reflection sheet and test booklet.
- Wait to receive your Unit 6 answer and begin filling out your reflection

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# Test Corrections

1. **The test question written in full.**
2. **Your new answer written in full.**
3. **An explanation of why you believe the new answer is correct.**

- This sheet of loose leaf must be stapled to your old answer sheet and submitted to Ms. Hart by the date assigned.

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# HOMEWORK

Complete test corrections and reflection sheet!

Study for midterm by review old notes and going through old flash cards!

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