



Do Now ... June 5, 2017

Obj: Prepare for and successfully complete RQA Part A.

Copy and Do:

1. What is the effect on the **boiling point** when you add additional *solute* to a *solution*?
2. What is the effect on the **freezing point** when you add additional *solute* to a *solution*?

Monday, June 5, 2017

Today:

W-Up, Review, RQA Part A

HW: Prepare for RQA Part B tomorrow.

Review

How do we dilute a solution and what is the effect on molarity (concentration)?

Review

1. If you have 106.9 g of NaCl in 1.0L of water, what is the molarity?
2. How would you make this solution in the lab?



Do Now ... June 6, 2017

Obj: Prepare for and successfully complete RQA Part B.

Copy:

Write (and balance) the neutralization reaction of hydrochloric acid and sodium hydroxide.

Tuesday, June 6, 2017

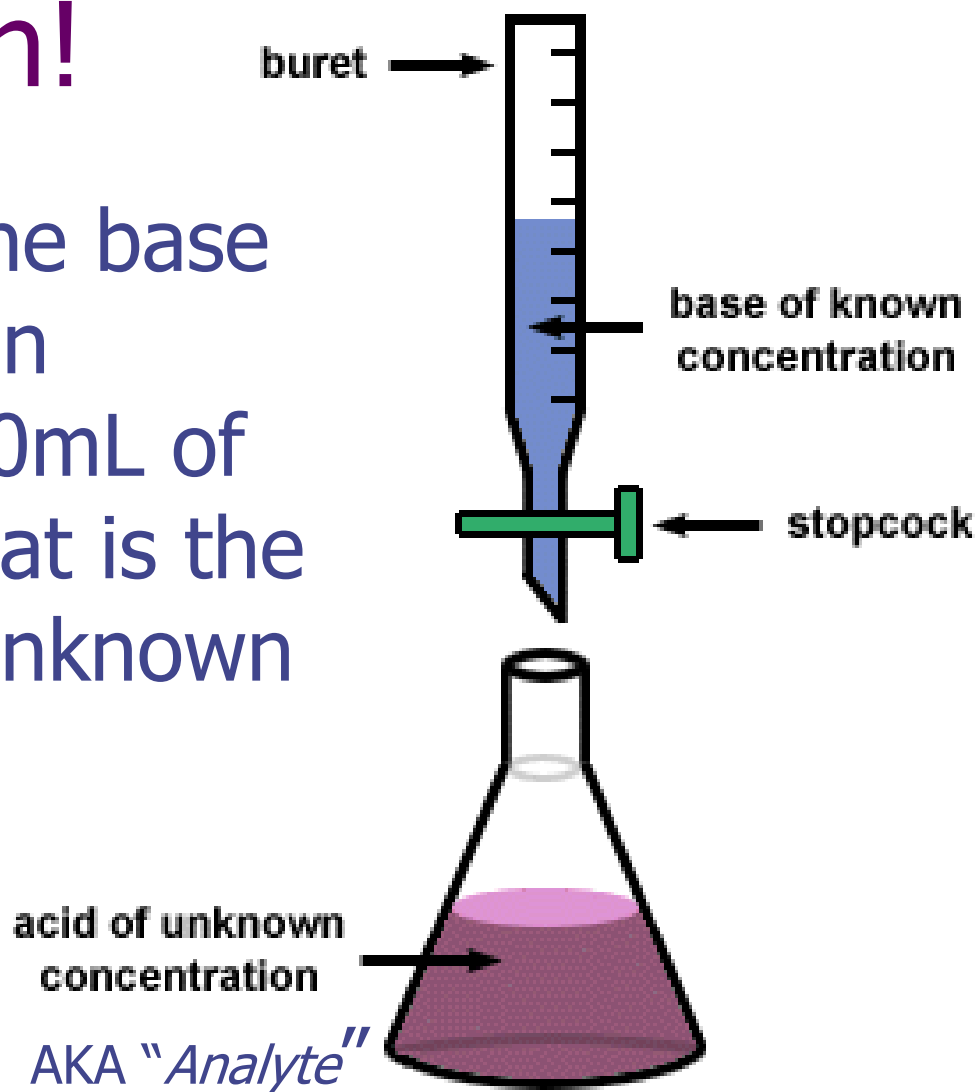
Today:

W-Up, Review, RQA Part B

HW:

Review: Titration!

If it took 27.0 mL of the base of known concentration (0.5M) to neutralize 50mL of the unknown acid, what is the concentration of the unknown acid?



Hint: $M_1V_1 = M_2V_2$

Review

Video Review: Strong, Weak, Dilute,
Concentrated

<https://youtu.be/vxAmLPtrQDI>



Do Now ... June 7, 2017

Obj: Design and evaluate the combustion of structures based on collision theory.

Copy and Complete:

How can you increase the rate of a chemical reaction? For example, burning paper?

Wednesday, June 7, 2017

Today:

W-Up, Begin Thermodynamics Project

HW:

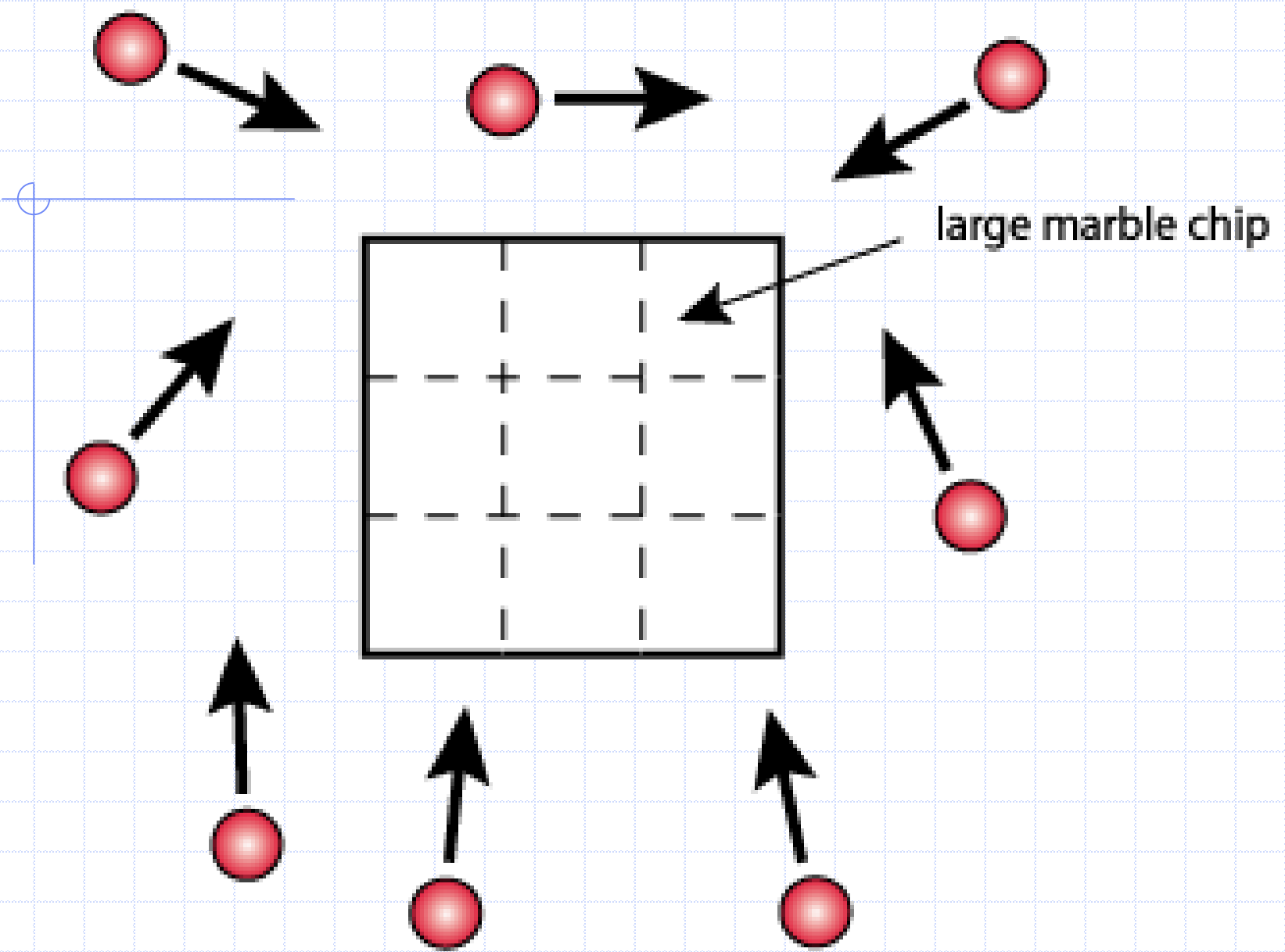
Day One: Preliminary Brainstorming, Design, and Test Design

Your Goal: Using all of the materials listed above, design and build a structure that will burn the fastest.

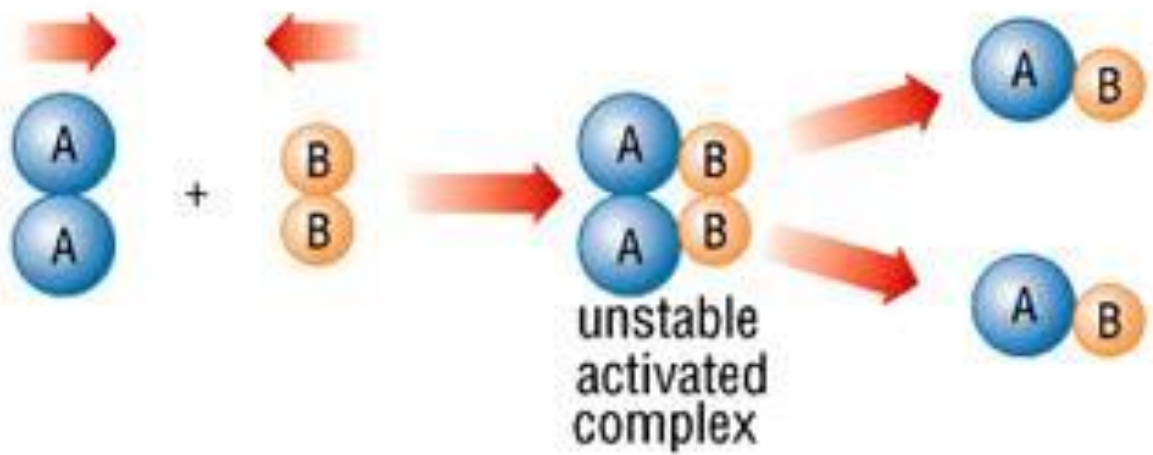
To Turn In (each person): Use **ten** of the terms listed in the *vocabulary list* (end of this packet) to write:

- A description of your design (include a rough illustration).
- Why you chose this design (what made you think it would burn the fastest?).
- Based on your first burn, what would you change and why?

[An example from college dorms ...](#)

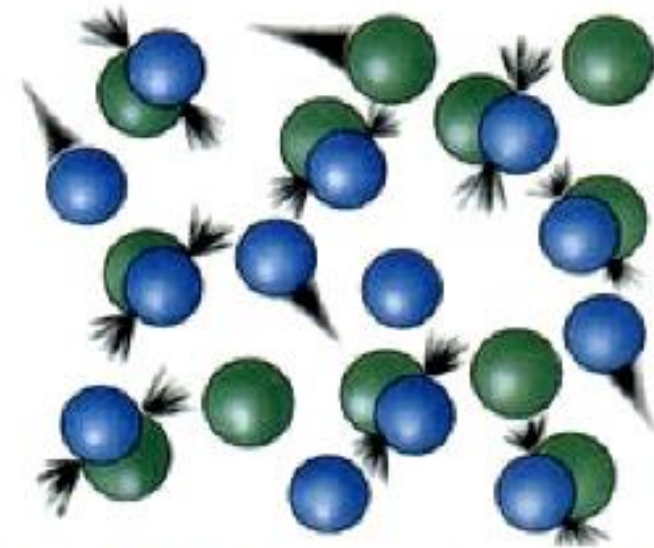
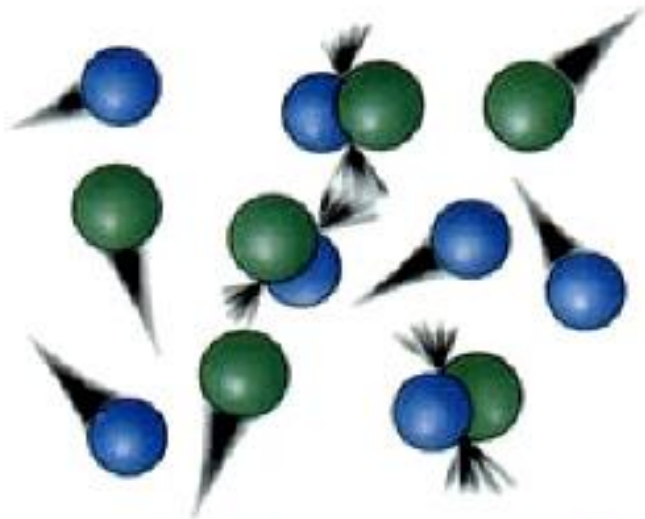


a fruitful collision



an unfruitful collision





Low concentration = Few collisions

High concentration = More collisions



Do Now ... June 8, 2017

Obj: Collect data and calculate specific heat.

Copy and Answer:

What is Collision Theory?

Why is this a useful theory for scientists?

How is it useful for you in our current project?

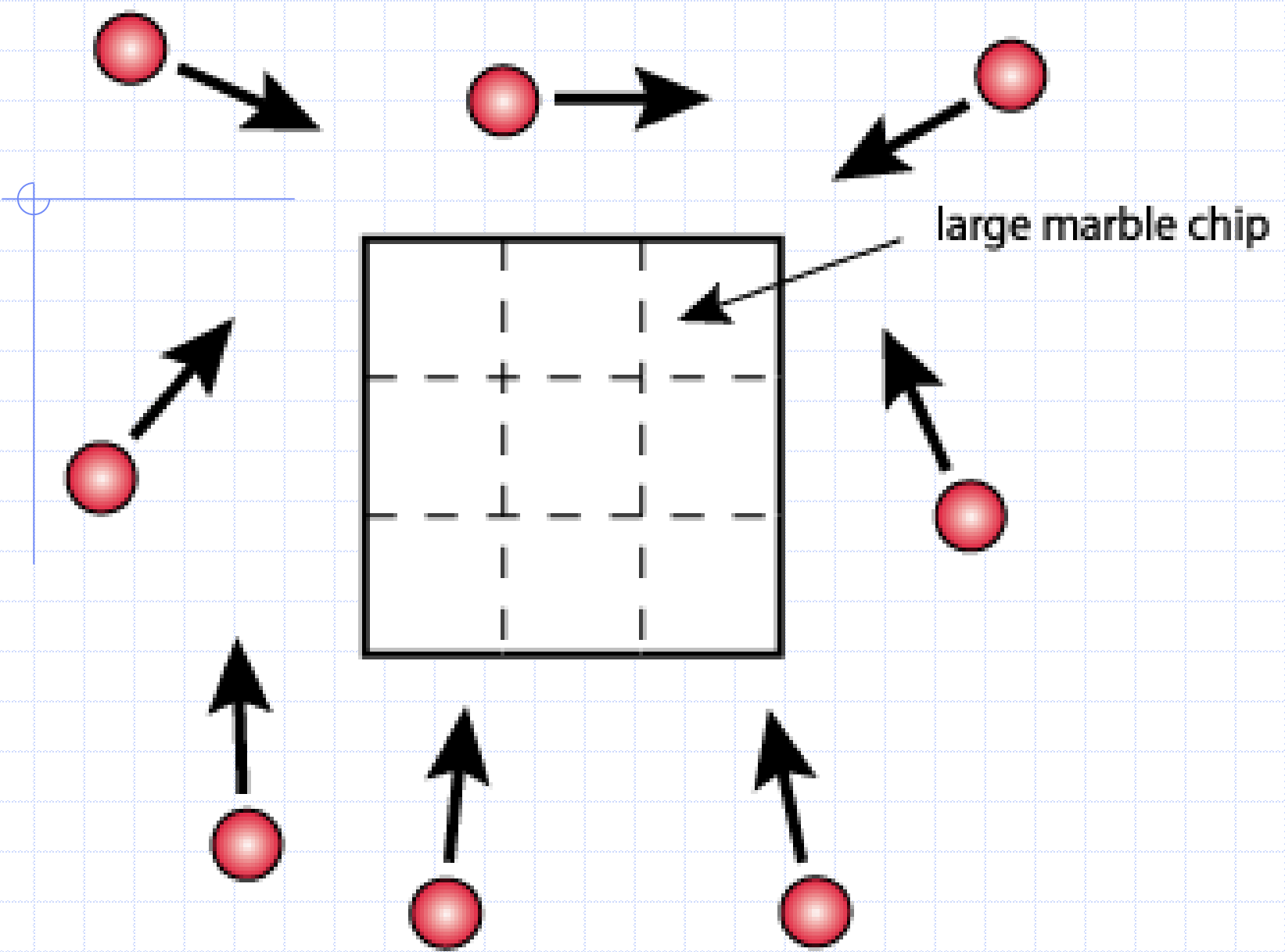
Thursday, June 8, 2017

Today:

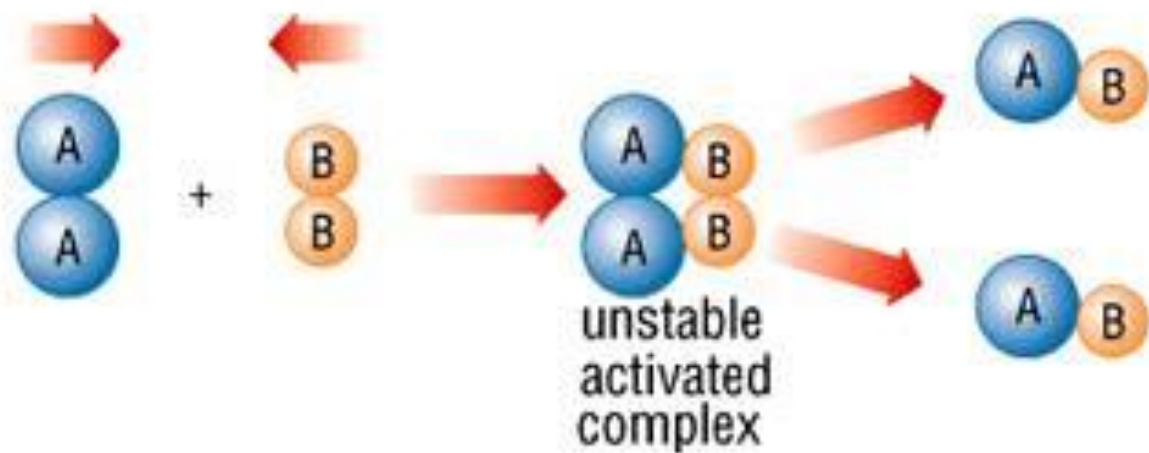
W-Up, Activity: Collision Theory Concepts

Day Two: Learn about *Collision Theory* in order to improve your design.

Your Goal: Redesign your structure based on what you learn about *Collision Theory* from the class activity.

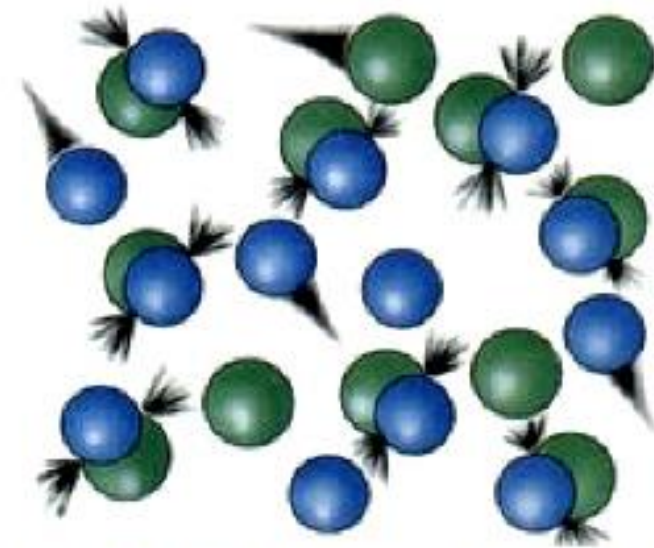
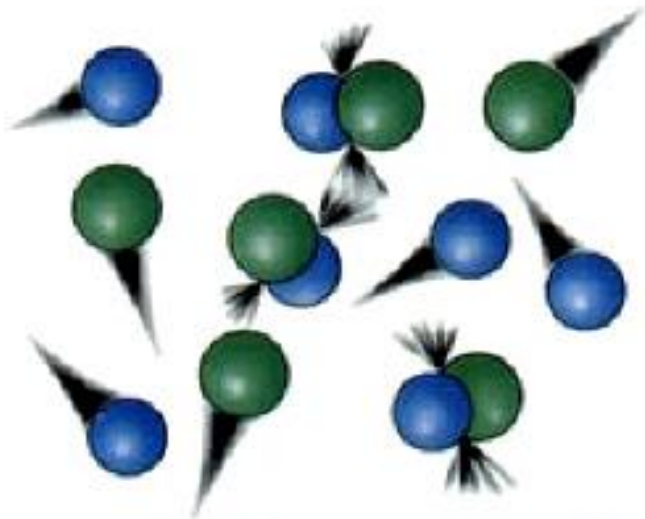


a fruitful collision



an unfruitful collision





Low concentration = Few collisions

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Do Now ...

Date: June 9, 2017

Obj: Review and prepare for unit test next Tuesday.

Copy and Answer:

Why is water used to cool nuclear power plants, car engines, and high-end computers?

What are the drawbacks?

Friday, June 9, 2017

Today:

W-Up, Prepare for ThermoChem Unit
Test Tuesday

HW: Complete Practice Test

