

Name: _____ Period: _____ Date: _____



10th Grade Chemistry Summer Homework

2013-2014 School Year



SUMMER HOMEWORK OVERVIEW:

In order to begin 10th grade as READY for chemistry as possible, you will spend time this summer learning important vocabulary and laboratory safety information. There's a lot of summer homework, but you'll be fine as long as you create a schedule and stick to it. The goal is to keep your brain active—even when you're not in school. I'm hoping to make even more improvements to our science lab this summer, and I'm excited for all of you to experience it next year! We will get right to work in September, and I have designed this summer assignment to help you be as successful as possible from day 1.

Please feel free to email, call, or text me with questions or comments at any time. I will be spending a lot of time at school this summer, so I will also be available to meet if you are having any trouble or would like to use the internet. I look forward to meeting all of you soon!

Ms. Eggleston

reggleston@paulcuffee.org

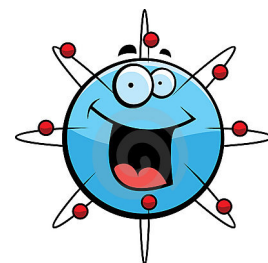
www.mseggleston.com

(401) 680-0273

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SUMMER HOMEWORK CHECKLIST:

- ☐ Read through this entire packet! Circle or highlight the directions on each page.
- ☐ EMAIL ME TWICE THIS SUMMER! See directions on p. 2.
- ☐ Complete the Periodic Table Scavenger Hunt (p. 3) using the Periodic Table on page 4.
- ☐ Read through ALL of the **25 Lab Safety Rules** on page 5. Circle or highlight words that you don't understand.
- ☐ Complete the Chemistry Summer Lab Safety Test at
https://docs.google.com/a/paulcuffee.org/forms/d/1g8tyPDz1qQKY5iIXvrTy5_XYKRly7ybn2bEjeftY8ws/viewform (LINK IS POSTED ON WWW.MSEGGLESTON.COM!)
- ☐ Look through the **Complete Guide to Chemistry Equipment** and put a star next to items that you have used before (p. 6-12).
- ☐ Complete the Chemistry Laboratory Equipment Test at
https://docs.google.com/a/paulcuffee.org/forms/d/1FRaIO-P_ZcpqqIPD0AvUbM7FzQ8w1SWuT3l8MIDnGBA/viewform
(LINK IS POSTED ON WWW.MSEGGLESTON.COM!)



Email Directions

You need to E-MAIL ME TWO TIMES this summer. Your e-mails MUST:

- Use proper grammar. That doesn't mean it needs to be super formal and full of difficult vocabulary, but I need to see that you know how to write. Do your best.
 - Proper punctuation and capitalization
 - No acronyms (lol, jk, etc.)
- Be at least two paragraphs long.
 - Paragraph 1 (5-9 sentences): A little about you and your summer. I hope that this will be an opportunity for us to start getting to know each other before the school year begins.
 - Paragraph 2 (5-9 sentences): Your feelings about science and starting chemistry. This paragraph can include how much of the summer homework you've done, what you think about it so far, and who you are as a student. You can also tell me what I can do to support you once I'm your teacher.
- Start with "Dear Ms. Eggleston," and end with "Sincerely," and your name.
- Be sent to my email address: reggleston@paulcuffee.org
- If for some reason you cannot access the internet this summer (by going to the library, a friend's, a family member's house, etc.), you are still responsible for doing all of your summer homework. You are welcome to set up a time to meet with me at school or mail your letters to:

Ms. Eggleston/Paul Cuffee School

544 Elmwood Ave.

Providence, RI 02907

Periodic Table Scavenger Hunt

Directions: Use the periodic table of elements (on the next page) to explore the periodic table!

1. Three elements named after countries:

1. _____

2. _____

3. _____

2. Three elements named after scientists (and name the scientist):

1. Name: _____ Scientist: _____

2. Name: _____ Scientist: _____

3. Name: _____ Scientist: _____

3. One element named after a state: _____

4. One element named after a continent: _____

5. Three elements named after planets: _____

a. _____

b. _____

c. _____

6. Your favorite element so far: _____

7. One element that sounds like it should be in a comic book: _____

8. Find at least 5 elements whose symbols (the big letters in the middle) do NOT match their names

a. _____

b. _____

c. _____

d. _____

e. _____

9. What is the only letter that is NOT on the periodic table? _____

10. Find the element that makes plumbing pipes: _____

11. Find the element that makes glowing signs: _____

12. Find the element that makes milk good for your bones: _____

PERIODIC TABLE OF THE ELEMENTS

4

25 Lab Safety Rules that Will KEEP YOU SAFE!

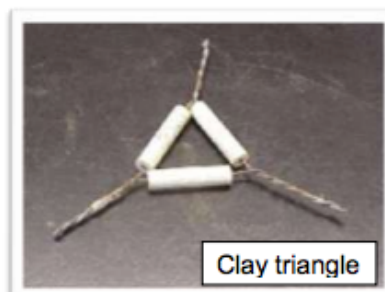
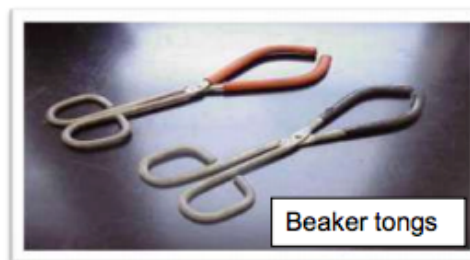
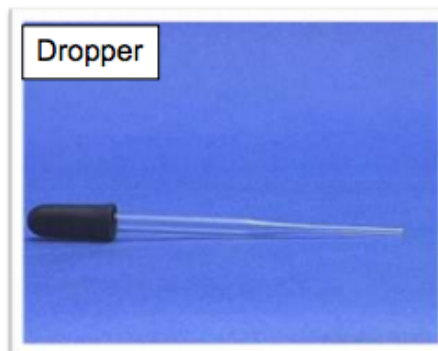
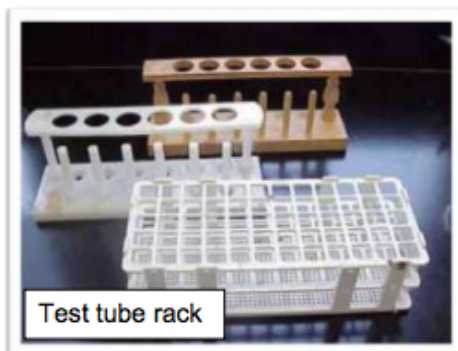
1. No eating or drinking in the classroom. (Bottled water allowed EXCEPT during labs.)
2. Always think about safety before the lab. Take careful notes during the pre-lab lecture and think about the assignment before starting.
3. Goggles must be worn at all times while students are working on labs.
4. Roll up long sleeves and tie back loose hair. (Rubber bands will be available.)
5. Know exactly where the shower, eyewash, fire extinguishers, fire blanket, and emergency exits are.
6. Never taste laboratory materials, and avoid touching them. If you are instructed to smell something, do so by wafting (fanning) some of the vapor toward your nose. Do not place your nose near the opening of the container.
7. Never look directly down a test tube. View the contents from the side.
8. Never EVER leave a Bunsen burner (a fire!) unattended.
9. Return equipment, chemicals, aprons, and protective goggles to their designated locations.
10. Check chemical labels twice to make sure you have the correct substance.
11. Sometimes you'll need to take laboratory chemicals from a big bottle or jar to your own test tube or beaker. Take only what you need and DON'T return extra back to the bottle.
12. If there is a chemical spill on your skin or clothing, rinse the area with plenty of water.
13. Minor skin burns should be placed under cold running water.
14. When getting rid of chemicals, follow the instructions provided or ASK!
15. Clean up spills immediately and contact Ms. Eggleston.
16. Properly dispose of broken glass with broken glass kit provided by Ms. Eggleston.
17. When heating something in a test tube or beaker, point it AWAY from all people.
18. Report any accidents immediately. Never try to hide anything.
19. If you don't understand what you are doing and why you are doing it, ASK!
20. If you see something in the laboratory that is dangerous, report it right away.
21. Don't put anything solid down the sink.
22. If someone's clothing or hair is on fire, use a fire blanket to put it out.
23. Never expose glass to sudden temperature changes. If you do this it might shatter. (i.e. Never take hot glassware and run it under the water in a sink.)

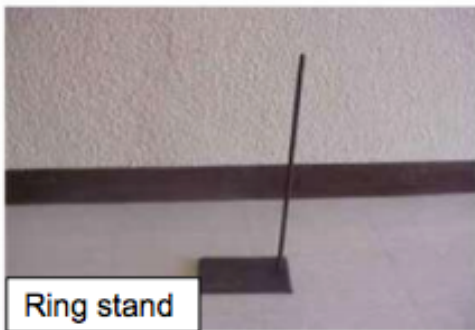


The ***COMPLETE*** Guide to Chemistry Laboratory Equipment!

Directions:

- Explore all of the chemistry supplies that exist in the world! We will be using many of these supplies this year, and in order to use them you need to know what they are.
- Complete the Chemistry Laboratory Equipment Quiz on https://docs.google.com/a/paulcuffee.org/forms/d/1FRaLO-P_ZcpqgIPD0AvUbM7FzQ8w1SWuT3l8MlDnGBA/viewform





Ring stand



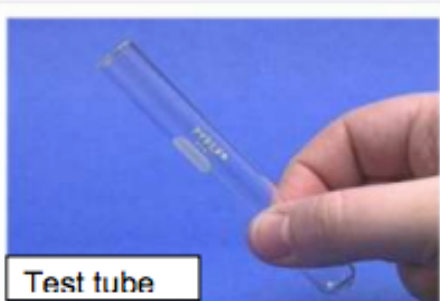
Wire gauze



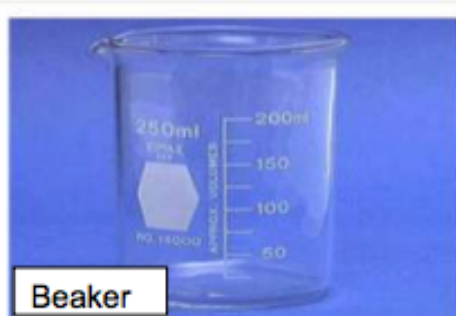
Bunsen burner



Evaporating dish



Test tube



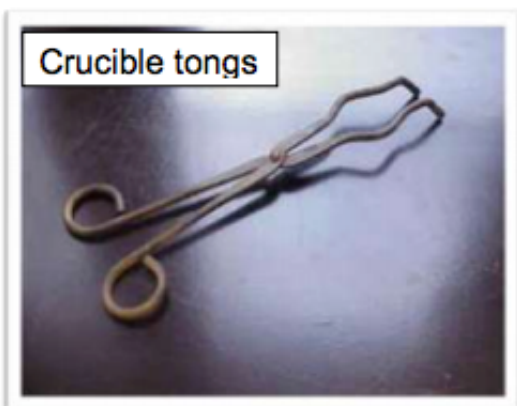
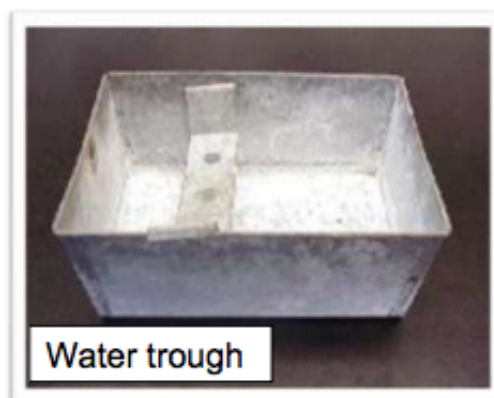
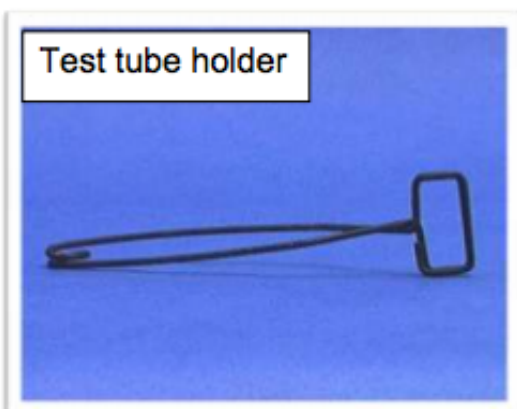
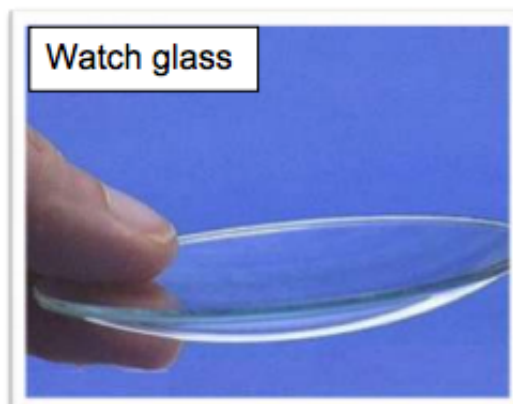
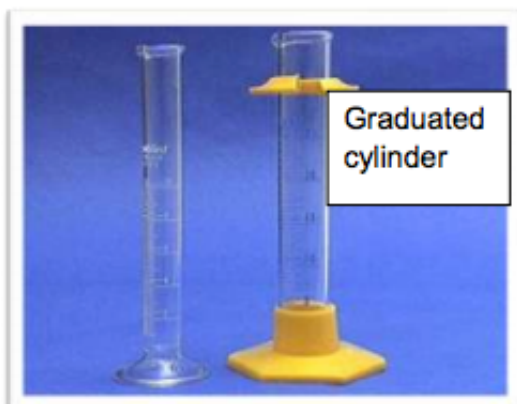
Beaker



Florence
flask



Crucible

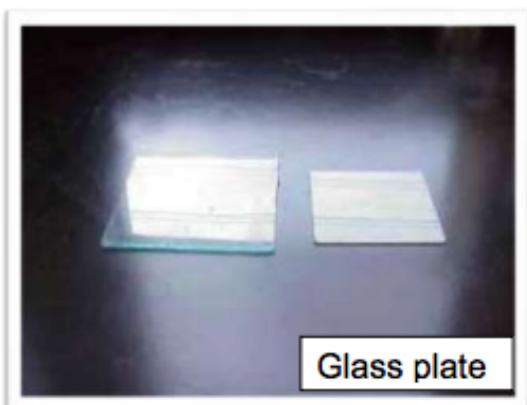




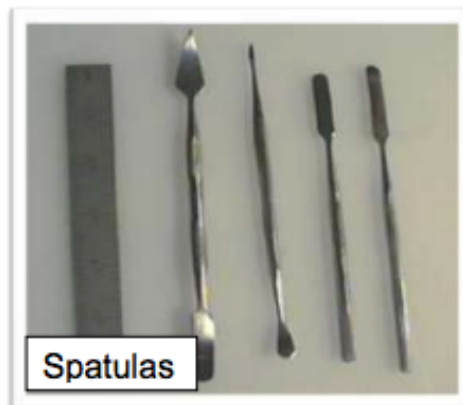
Iron ring



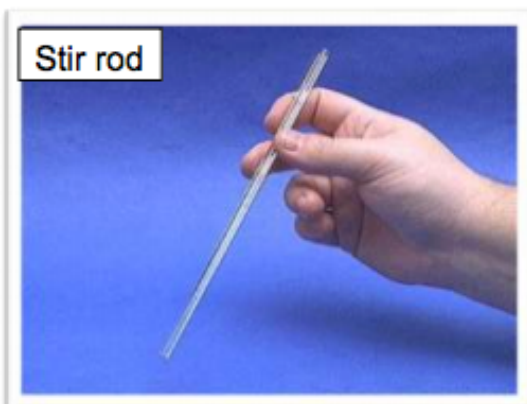
Glass Pipet
with Blubs



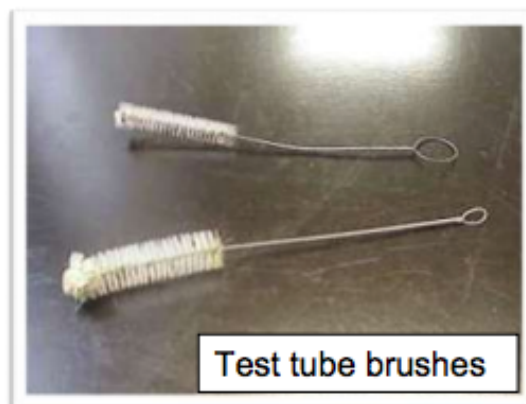
Glass plate



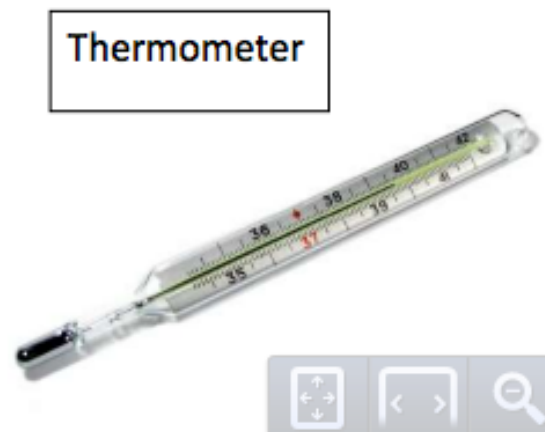
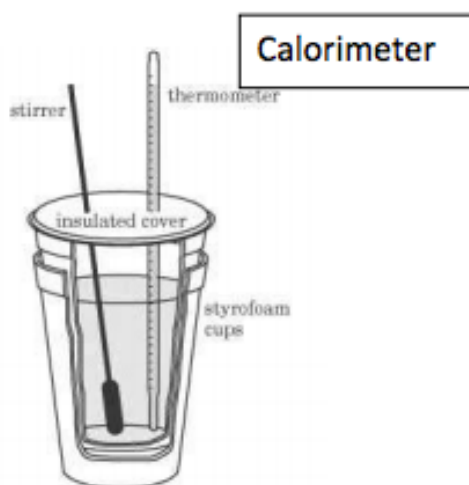
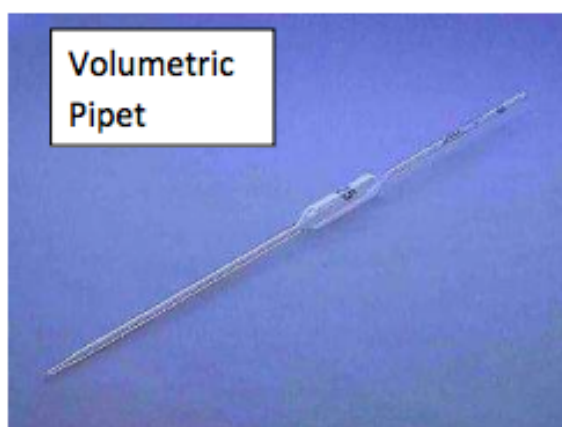
Spatulas



Stir rod



Test tube brushes



Thermometer Rack



Electronic Balance



Lab Apron



Volumetric Flask



Centrifuge



Mortar and Pestle



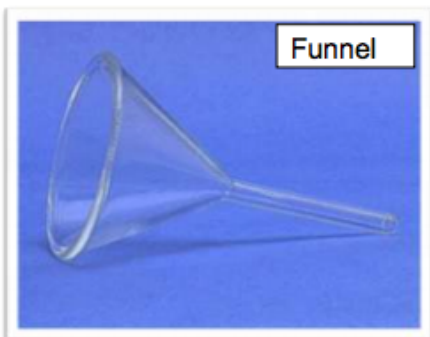
Scoopula



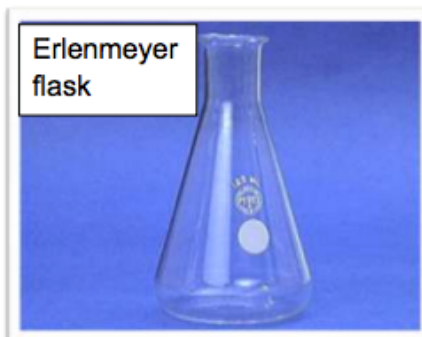
Rubber Stopper



Funnel



Erlenmeyer flask



Plastic pipet



Burette on Ring Stand

