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.

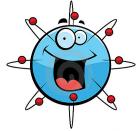
Please feel free to email, call, or text me with questions or comments at any time. I will be spending a lot of time at school this summer, so I will also be available to meet if you are having any trouble or would like to use the internet. I look forward to meeting all of you soon!

Ms. Eggleston
reggleston@paulcuffee.org
www.mseggleston.com
(401) 680-0273

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(LINK IS POSTED ON WWW.MSEGGLESTON.COM!)

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 <u>25 Lab Safety Rules</u> on page 5. Circle or highlight words that
you don't understand.
Complete the Chemistry Summer Lab Safety Test at
$\underline{https://docs.google.com/a/paulcuffee.org/forms/d/1g8tyPDz1qQKY5ilXvrTy5_XYKRIy7y}$
<u>bn2bEjeftY8ws/viewform</u> (LINK IS POSTED ON <u>WWW.MSEGGLESTON.COM</u> !)
Look through the <i>Complete Guide to Chemistry Equipment</i> 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/1FRalO-
P_ZcpqqIPD0AvUbM7FzQ8w1SWuT3I8MIDnGBA/viewform



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.
 - o 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

<u>**Directions**</u>: Use the periodic table of elements (on the next page) to explore the periodic table!

1.	Three eler	nents named after countries:							
	1.								
	2.								
	3.								
2.	Three eler	ments named after scientists (and name t	he scientist):						
	1.	Name:	Scientist:						
	2.	Name:	Scientist:						
	3.	Name:	Scientist:						
3.	One eleme	ent named after a state:							
4.	One eleme	ent named after a continent:							
5.	Three eler	ments named after planets:							
	a.								
	b.								
	c.								
6.	Your favor	rite element so far:							
7.	One eleme	ent that sounds like it should be in a comi	c book:						
8.	3. Find at least 5 elements whose symbols (the big letters in the middle) do NOT match								
	their name	es							
	a.								
	b.								
	c.								
	d.								
	e.								
9.	What is th	e only letter that is NOT on the periodic t	able?						
10.	Find the e	lement that makes plumbing pipes:							
11.	Find the e	lement that makes glowing signs:							
12.	Find the e	lement that makes milk good for your bo	nes:						

NECAP Science Grade 11 Reference Sheet

	18	V III V	Helium	H	Neon 10	20.180	Argon 18	Ar 39.948	Krypton 36	Ž 8	Xenon 54	Xe	131.290	Radon 86	R	222.018						
	17			∀Ħ	Fluorine 9	18.998	Chlorine 17	35.453	Bromine 35	D 200	lodine	-	126.904	Astatine 85	At	209.978			Lutetium 71	Lu 174.967	Lawrencium 103	Lr 260.105
	16			₽	Oxygen 8	15.999					\perp								Ytterbium 70	Yb 173.04	Nobelium 102	No 259.101
	15			ΚA	Nitrogen 7	Asenic 33 AS 74.74.722 Antimony S12.757 Bismuth 83 Bismuth 83 AS 208.980			Thulium 69	TB	Mendelevium 101	Md 258.099										
	14			₽	Carbon 6	15.011	Silicon 14	S :086	Germanium 32	S	il C	S'n	118.710	Lead 82	Pb	207.2			Erbium 68		Fermium 100	Fm 257.095
	13			∀ 目	Boron 5		Aluminum 13	AI 26.982	Gallium 31	G 8	Indium	٦	114.82	Thallium 81	F	204.383	1		Holmium 67 HO 164 930			ES 252.083
SINTS	12							IB	Zinc 30	Z S S S	Cadmium 48	ပ္ပ	112.411	Mercury 80	Hg	200.59			Dysprosium 66	162.50	Californium 98	251.080
PERIODIC TABLE OF THE ELEMENTS	=							IB	Copper 29	38	Silver 47	Ag	107.868	Gold 79	Au	196.96/			Terbium 65	Tb 158.925	Berkelium 97	BK 247.070
F THE	9		Le C]_		Nickel 28	Z 89	Palladium 46	Pd	106.42	Platinum 78	ť	80.681		Gadolinium 64	Gd	Curium 96	Ca 247.070	
ABLEC	6		Hydrogen	-:	Ι	1.008		- MII B	Cobalt 27	ဦး	Rhodium	絽	102.906	Iridium 77	_	Noitherium	109	(266)	Europium 63	EU 151.965	Americium 95	Am 243.061
DDIC T	œ	L	<u>+</u>	+	+			•	100 26	T 24	Ruthenium	Ru	101.07	Osmium 76	OS	190.2 Hassium	108	(265)		Sm 150.36	Plutonium 94	Pu 244.064
PERIC	7		Name_	ımber –	Symbol –	tomic Mass-		ĦB		N 938			_				Bohrium 107 Bh (262)			Pm 144.913		N 237.048
	9			omic Number	Ś	Atomic		ИВ	Chromium 24	ڮڐۣ	Molybdenum	Mo	95.94	Tungsten 74	> 3	Seaboroii m	106	D [8]				238.029
	5			Ato				В	Vanadium 23	50 942	Niobium 41	Q	95.906	Tantalum 73	E g	_	\$ 2		Praseodymium 59	P	Protactinium 91	Pa
	4							В⊠	Titanium 22	47 88	Zirconium	Ž	91.224	Hafnium 72	Ħ	178.49 Ruthefordium	₽	(261)		S		
	က							目 目	Scandium 21	လ	Yttrium	>	98.906	Lanthanum 57	La	138.906 Actinium	88	AC 227.028		ies		
	2			ΗA	Beryllium 4	DC 9.012	Magnesium 12	Mg 24.305	Calcium 20	8 20 9	Strontium	ຮັ	87.62	Barium 56	Ba	137.327 Padium	8 0	226.025		Lanthanide Series		Series
	7		Hydrogen	T .08	Lithium 3	L1 6.941	Sodium 11	Na 22.990	Potassium	30 08	Rubidium	Rb	85.468	Cesium 55	S	132.905 Francium	87	223.020		Lanthar		Actinide Series
	Group →1	Period I	→ •	-	2		C	າ	•	4		2			9		7					

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.)

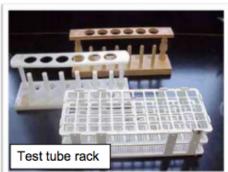


The **COMPLETE** Guide to Chemistry Laboratory Equipment!

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_ZcpqqIPD0AvUbM7FzQ8w1SWuT3l8MIDnGBA/viewform



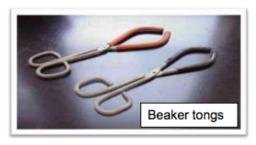


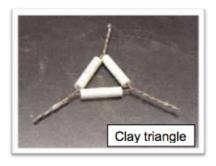


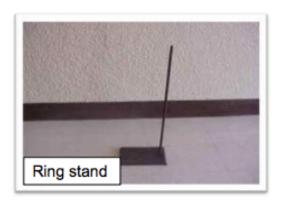




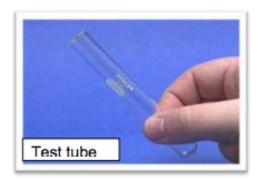


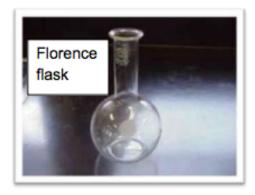


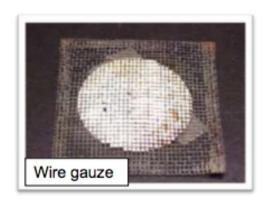


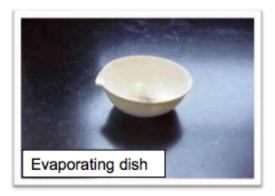


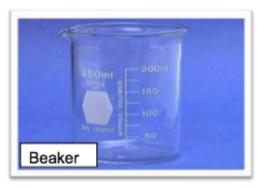


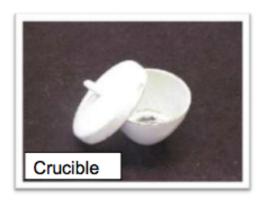


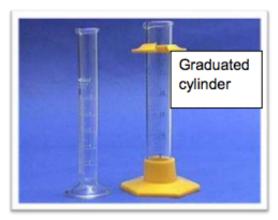


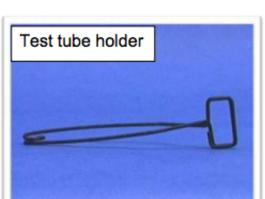


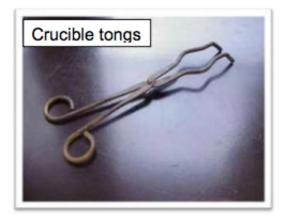


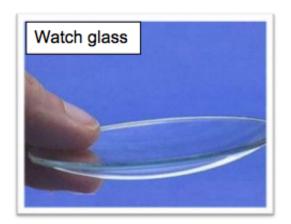




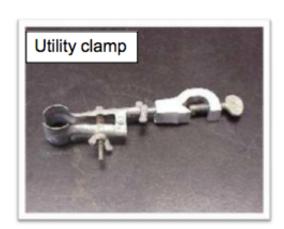






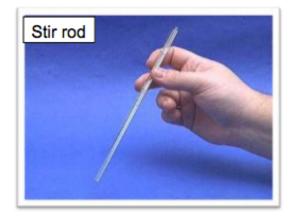




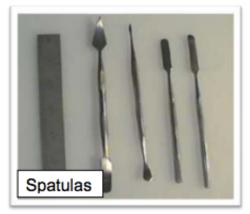


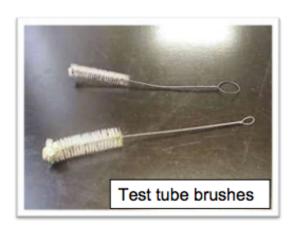


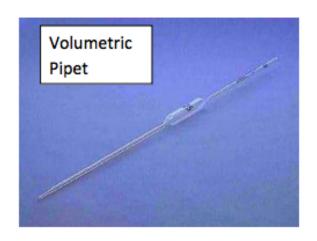






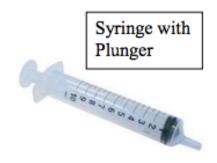




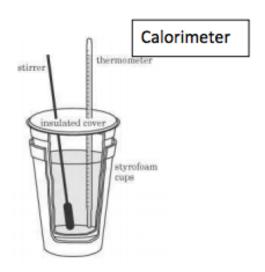


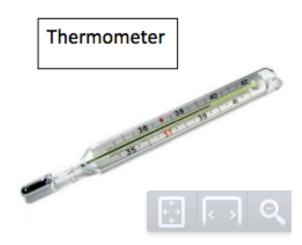












Thermometer Rack



Electronic Balance



Lab Apron



Volumetric Flask



