¥		art 1 Unit Test Rehe 3 I can create a hyp	arsal Name: koothesis to answer the pr	roblem	_ Hour:				
	(experiment) 1. Dudle). By the bearded drag	on lost weight recently	on and predict the outcor when his UV light burnt of present then	out				
2. The Polar Bear garden has two raised beds, one of which has shade throughout the day. In the bearded the tomatoes are wilted. If the tomatoes are in the shade, then they									
	3. Black Otter Lake has lots of algae growing in it. Recently towns have started to ban fertilizers with phosphorus in it. If there is phosphorus in the lake, then there will be a lot of algae								
		4	3	2	 	1			
	Questions	Clear, concise	Demonstrates	Hypothesis written in o	correct	Attempts to			
			understanding of	format and attempts to	write in				
			what is changed, and	outcome	correct format				
			what is measured.						
RST.9-10.3.2 I can use the factor label method to convert measurements.									
relati	4. How m	any grams are in 5	97 mg?	Relationships:					
1000	my = 19	E 97	116 697	1000 mg = 1 g $1 m = 39.4 inc$		39.4 inches			
conv	lersions	59 Trus	19 (= ,0,0	1000 mL = 1 L	1 mile = 1.61 km				
1000 mg 19 1000 mg				100 cm = 1 m	12 inches = 1 foo				
60	1 00000	5		1000m = 1 km	1 min	= 60 sec.			
		J		1 mile = 5280 feet	1 hou	r = 60 min.			
5. The distance between New York and San Francisco is 4,741,000 m. Change the distance to									
	kilomet	ers.			uie distaii	ce to			
10	atroush.p	4,741,	000 1 KM =	4,741,000 km	4,9	41 KM			
IKM	or 1000M	1000							
	6. How ma	any centimeters ar	e in 4 miles?						
relationships									
1161	ile = 1.6 Km u = 1000 M	, 4	miles 1:61/00 1000	11/14 = 64	9,000	cw)			

		186,335.	104 miles
4	3	2	1
Can place the given and relationships into a format that will factor out units in order to	Can place the given and relationships into a format that will factor out units in order to	Can identify and show the relationship and correct conversion factor between the	Can identify the "given" and the "goal"
answer a multiple conversion problem	answer a single conversion problem	given and goal	
HS-PS1-1.1 I can use the 8. Periods (from left to	to right) on the periodic ta	ble have increasing	
a atomic mass	b atomic numbe	rs c energy leve	ls
a. Energy levels b.	oup on the periodic table, group numbers c. vale e the periodic table as w Potassium 19 K 39.0983	ence electrons d. orbita	l types
10. What does the <u>nu</u> a. Atomic mass	mber 19 represent on the b Atomic numb		nent Potassium? d Elements symbol
11. What does the <u>lett</u> a. Elements symb	ter K represent on the per bol b Atomic mass	riodic table for the elemen c Element's name	t Potassium? d Atomic Number
12. What does the wo a. Atomic mass	rd <u>potassium</u> represent o b Atomic numbe		d Elements symbol

7. Light travels at 300,000,000 meters/second. Convert this to miles/second.

300,000,000 A

300,000,000 miles

	b Atomic	number	c Elements	name o	l Elements symbol
14. Refer to your p	eriodic table. How is t	he element	Bromine (#3	35) classifi	ed?
a. Solid b	Gas c Liquid	d Unk	nown		
15. What period is	notassium in?				
	2 c 3	d 4	*		
16. What group is p	ootassium in?				
a1 b	2 c 3	d 4			
17. What is the stat	te of the element nitro	gen (#7)?			
a Solid b Liquid	d c Gas d Unknown				
18. What is the stat	te of the element ruthe	erfordium (#	104)?		
a Solid b Liqui	d c Gas d unknown				
S-PS1-1.2 I can class	sify elements into grou	ıps based or	similar pro	perties.	
10 Cuanna af alam		C : 11 1		_	
a size b ator	ents share what type o	of similar chi al properties		?	
ş. 0					
	e electrons patterned	15			
	s a row the # of valenc a column the # of ene			-16	
	a column the # of ene	1055180	-		
d) All of the ab					
e) Only a. and I	0.				
Atomic Radius vs At	omic Number				
e ^{0.300} 1					
0.250 -					
1 7 1	**************************************				
0.150 - 0.100					
0.050	25 20 25 40				
0.000 1 , , , ,	0 25 30 35 40 Number				
0 5 10 15 2	VO 12300 MAYOR VANOS CARDO				
0.000 15 2 0 5 10 15 2 Atomic	VO 12300 MAYOR VANOS CARDO	us of atoms	V	_across a	period
0.000 15 2 0 5 10 15 2 Atomic	Number		he same		period o pattern
21. Refer to the grap	ph above. Atomic radi	c stay t	he same		o pattern

HS-PS1-1.3 I can identify how electrons are arranged in an atom

23. Electrons are most likely found outside the:

a atom in the nucleus

b nucleus in the electron cloud

c nucleus in the charged area

24. Order the following from largest area to smallest area of the atom

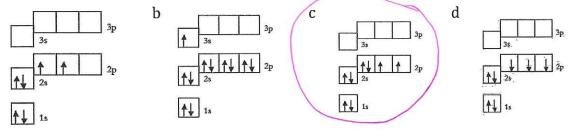
- a. suborbital, energy level, electron cloud
- b. electron cloud, energy level, suborbital
- c. energy level, electron cloud, suborbital
- d. suborbital, electron cloud, energy level

25. What is the electron configuration for the element sulfur?

- a. $1s^2 2s^2 2p^6 3s^2 3p^5$
- b. 1s² 1p⁶ 2s² 2p⁶
- c. 1s² 2s² 2p⁶ 3s² 3p⁴
- d. 1s² 1p⁶ 2s² 3s² 3p⁴

26. What is the correct electron orbital diagram for the element oxygen

a

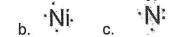


27. Write the electron configuration for the element phosphorus (P)

HS-PS1-1.4 I can construct a Lewis dot diagram for the first 18 elements on the periodic table.

28. The correct Lewis Dot diagram for nitrogen is





29. Draw the Lewis dot diagram for the element sulfur(#16):



30. Draw the Lewis dot diagram for the element calcium(#20):



31. Draw the Lewis dot diagram for the element carbon(#6):

«C·

	Element	Atomic	Mass #	p	n	e	Period	Group
	Name	#				*	#	#
32.	carbon	6	12	6	6	6	a	14
33.	Zinc	30	65	30	35	30	4	12
34.	Maynesium	12	24	12	12	12	3	2
35.	Lithium	3	7	3	4	3	2	1

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