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Test Chemistry الملف

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Name	ANSWER	Ken	Date	Class	

1 Chapter Test

Chemistry and You

Multiple Choice

On the line at the left	, write the letter of	the answer that best	completes each sentence.
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- A tentative answer to a scientific question is called a
 a. theory.
 - b. conclusion.
 - c. law.
 - d. hypothesis.
 - 2. Experimentation involves the testing of
 - a. laws.
 - b. variables.
 - c. classification.
 - d. conversions.
 - 3. The most important rule in lab safety is to
 - a. wear gloves.
 - b. know your equipment.
 - c. follow instructions.
 - d. clean up when you're finished.
 - 4. An example of an SI base unit is a
 - a. kilogram.
 - b. force.
 - c. pressure.
 - d. power.
 - 5. An example of a derived quantity is
 - a. area.
 - b. mass.
 - c. length.
 - d. time.
 - 6. Measurements are always uncertain because
 - a. instruments aren't precise.
 - b. measurements involve some estimation.
 - people don't know how to use instruments.
 - d. both a and b
 - 7. A measurement that is very close to the standard accepted value is said to be
 - a. analogous.
 - b. precise.
 - c. accurate.
 - d. uncertain.
 - 8. Zeros are always considered significant digits when they
 - a. function as place keepers.
 - b. occur between two nonzero numbers.
 - c. precede a decimal point.
 - d. both a and b

Name)ate	Class	
1 Chapter I	Test (continued	7)			*
• •	The sumit of mon	ours for density is			
9.	a. g/s.	sure for density is			
	b. g/C°.				
	c. g/cm ³ .				
10	d. g/Kg.	ificant digits are in th	ne measurement	0.005.030 9?	
<u> </u>	a. 3	meant digits are in d	ic measurement	0.000	
	b. 4 + -			8	
	c. 5 d. 7				
		of dimension analysis	is used to		
	a. convert a ve	ery large number into	an easier-to-use	form.	
	b. determine t	he independent varia	ble on a graph.		
		ts of measurement. estable hypothesis.			
	u. develop a to	stable hypothesis.			
True or Fal	S.P.				
statement true	9.	rue." If it is false, cha The safety symbol	showing a flame		
		all loose equipmen			
T		. The <u>meter</u> is the S			
mill	14	. The metric prefix	<u>centi</u> - means one	thousandth, or 0.00)1.
precis	15	. A <u>sensitive</u> measure under the same co	uring instrumen onditions. '	t will give consist	ent results
Problems					
Express each	of the following	in scientific notation.			
16. 0.000.000			17. 1,360,000,00	0_1 g	
000	× 10*8		1.36 x 1	9 -	
1 - >	x 10		(, ,		
de la companya della companya della companya de la companya della					
	ollowing calculati	ons, then round off e		e proper number o	f significant
digits.			1.6305 g		
18. 6.15 m x	3.026 m x 0.018	m	19. 2.0 m ³		
2	sig figs		2 sig.	fias	
	0.33 m ³			_	
	J. 55 (m		0.82	lm°	

Name	Date	Class	. <u></u>

1 Chapter Test (continued)

20. Identify how many significant digits are in each of the following measurements and write your answer on the line.

a. 187.032 g

3 c. 1.30 x 10⁻¹² kg

3 b. 0.0601 m³

Solve each of the following problems as directed. Show all your work.

21. Convert 160.57 g into each of the following units. Use scientific notation where convenient.

22. The density of iron is 7.86 g/cm³. You are given an unknown metal that has a volume of 30.1 cm³. What would the mass of the sample be if the metal is iron?

d = m

7.80.30.1 = m = 236.585 m = 237 g

 $7.86 = \frac{m}{30.1}$

23. Calculate the number of feet in a 5-km race, given the following unit equalities: 1 in = 2.54 cm;

5 km 11.000m 100 cm 1 in 1 (ft) 500,00 = 30.4

= 16,404 feet

Essays

Write your answers to the following questions on a separate sheet of paper,

- Explain how you would use the scientific method to determine whether or not dogs can see color. Be sure to include each of the steps of the scientific method as discussed in the chapter.
- 25. Could you generate a natural law from the results you would obtain in question 24? Explain.

No. Laws come after many supported theories. Laws = big ideas | patterns

Name	ANSWER	Key	Date	Class	

3 Chapter Test

Atomic Structure

On the line	e at	the left, write the letter of the answer that best completes each statement.
<u> </u>	1.	 An atom is a. a tiny, indivisible particle. b. the smallest piece of matter. c. the smallest particle of an element that retains the chemical identity of that element. d. an artificially assembled unit that contains protons and electrons.
	2.	 Dalton's atomic theory did NOT include the postulate that a. matter is made of small particles called atoms. b. atoms contain electrons, protons, and neutrons. c. atoms are neither created nor destroyed in chemical reactions. d. compounds always contain the same relative numbers and kinds of atoms.
	3.	 The electrical charges in an atom are located a. only in the nucleus. b. on protons and neutrons. c. on protons and electrons. d. on protons, electrons, and neutrons.
<u>d</u>	4.	 J. J. Thomson concluded that a cathode ray contains negatively charged particles by studying how a. the cathode ray produced a green spot on the fluorescent screen. b. a magnetic field deflected the ray's path. c. the ray was deflected by electrically charged plates. d. both b and c.
<u>b</u>	5.	 Which of the following is a true statement about radiation? a. Alpha radiation consists of particles with a 4+ charge. b. Beta radiation consists of high-speed electrons. c. Gamma radiation would be deflected toward positive plates. d. All forms of radiation can penetrate a lead plate.
	6.	 Rutherford's alpha scattering experiment indicated that a. the nucleus of an atom occupies most of an atom's volume. b. positive charges are dispersed throughout the atom. c. positive charges are concentrated in a very small core at the atom's center. d. protons and neutrons are located in the nucleus.

Name			Date	Class
3 Chapte	r Test	(continued)		
<u>a</u>	a. b. c.	move in the s have a mass 6	termined that electrons pace around the nucleus. qual to the mass of protons. eus in a well-defined path.	
<u>b</u>	a. b. c.	neutrons in the	eir nuclei. atomic #	er of
C	a. b. c.	mass number numbers of p	he same element may have dis s and atomic numbers. rotons and numbers of neutro s and numbers of neutrons. perties.	
	a. b. c. d.	n atom may be more than 83 too few neutr too many ner all of the abo	ons.	tains
True or F		true, write "tru	e." If it is false, change the un	nderlined word or words to make the
statement t	true. W	rite your answ	er on the line provided.	at the structure of the atom was
Static	د دلا	cincity 12.		electrical charges that are not in
	T	13.		nt, Millikan calculated that the mass in relation to the mass of a proton.
neu-	tvon	5 14.	Atoms of nitrogen-14 and nit in the number of <u>electrons</u> the	trogen-15 differ from each other only hey possess.
	T	15.	Beta radiation is represented	I by the symbol $_{-1}^{0}e^{-}$.

blems				
biems				
a periodic tab	le to complete the follo	owing chart.		
Chemica Symbol		Number of electrons	Number of neutrons	Atom or ion?
131 ₅₃ I-	53	54	131-53-78	ion
Br	35	36	45	ion
Na	11	((12	atom
Cs	23	55	78	atom
Answer each of the y do chemi	of following questions is	n the space provi	ded. lergo radioactive de	ecay?
rt Answer ver each of the Vhy do chemi	e following questions i	n the space provi	ded. lergo radioactive de	ecay?
ort Answer wer each of the Why do chemi	e following questions is	n the space provi	ded. lergo radioactive de	ecay?
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wer each of the Why do chemi	e following questions is	in the space provi	ded. lergo radioactive de	ecay?
rt Answer ver each of the Vhy do chemi	e following questions is	in the space provi	ded. lergo radioactive de	ecay?
oraw both The	e following questions is cal properties change is characteristics.	in atoms that und	ded. lergo radioactive de	ecay?
rt Answer ver each of the Vhy do chemi raw both The	e following questions is	in atoms that und	ded. lergo radioactive de	ecay?

25. Describe the impact that scientific discoveries about the structure of the atom have had on your life. - plastics

26. Fission + Fusion Reactions

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