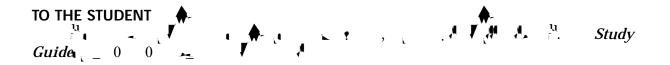
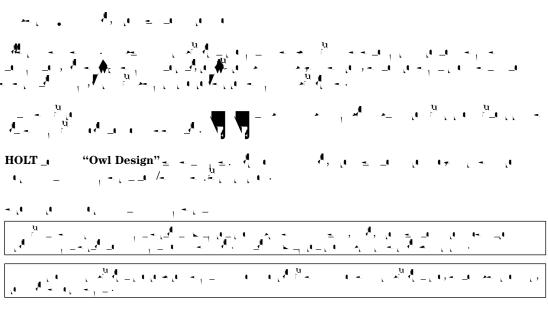
HOLT CALIFORNIA Physical Science

Study Guide A with Directed Reading Worksheets







0-03-046533-8

Contents

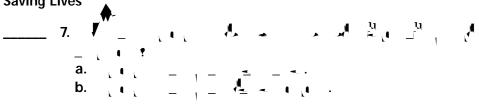
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The Chemistry of	f Living Things		
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Forces and Motio	on		
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Forces in Fluids			
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APPLYING THE ANSWERS

Saving Lives



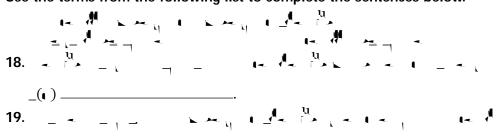
Directed Reading A

Section: Scientific Methods WHAT ARE SCIENTIFIC METHODS?

Write the letter of the correct answer in the space provided.

7		<u>-</u>	 	
Directed Reading	A continued			
continuedo	0	n	t	

Use the terms from the following list to complete the sentences below.



Analyzing **Pro e**

DRAWING CONCLUSIONS

The **Proteus** Conclusion

COMMUNICATING RESULTS

Directed Reading A

Section: Safety in Science (pp. 22-27)

KEEPING YOURSELF SAFE

Write the letter of the correct answer in the space provided.



Avoiding Accidents

Reporting Accidents



ELEMENTS OF SAFETY

Understanding Safety Symbols



Match each safety symbol with the correct meaning. Write the letter in the space provided.

Following Safety Symbols

8. a. b. a.

Following Directions

.C. __47,((व.१) ((व. व. १४७) d. _ व. .

ביי"_נו ן ! a. י ל בין וייבון

C. + - - 1

Neatness

Using Proper Safety Equipment

d. - - 1

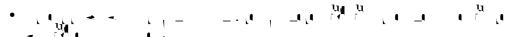
Science and Scientists VOCABULARY

In your own words, write a definition of the following term in the space provided.

1. .

SECTION SUMMARY

Read the following section summary.



Skills V	Vorksheet)

Scientific Methods VOCABULARY

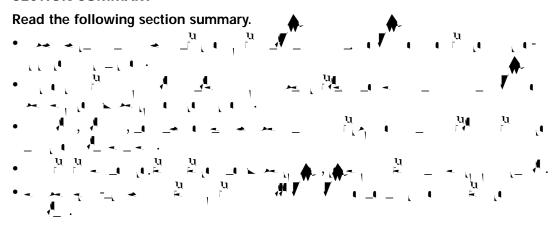
In you	our own words, write a definition of the following term	in the space provided.
_		
_		

Safety in Science VOCABULARY

In your own words, write a definition of the following term in the space provided.

1. ₁

SECTION SUMMARY



Directed Reading A

Section: Tools and Models in Science (pp. 42-49)

Write the letter of the correct answer in the space below.

TOOLS IN SCIENCE

MAKING MEASUREMENTS

The International System of Units

Temperature

Write the letter of the correct answer in the space below.

d. A_{i}^{u}

b. = = 1 1

MODELS IN SCIENCE

Models: The Right Size

Write the letter of the correct answer in the space below.

The Limits of Models

USING MODELS FOR SCIENTIFIC PROGRESS

SCIENTIFIC THEORIES

Match the correct definition with the correct term. Write the letter in the space provided.

Directed Reading A

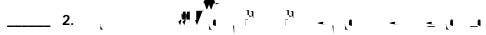
Section: Organizing Your Data

CREATING A DATA TABLE

Write the letter of the correct answer in the space below.



Organizing: The First Step



Variable and Controlled Parameters



CREATING A GRAPH



7	٤	

REPRODUCIBILITY OF DATA

DESCRIBING THE ENTIRE SET OF DATA

Tools and Models in Science VOCABULARY

In your own words, write a definition of the following terms in the space provided.





٦				<u> </u>			
Skills Wor	ksheet						
Vocal	bularv	and 9	Section	n Sum	marv <i>l</i>	1	
Skills Worksheet Vocabulary and Section Summary				a. y <i>1</i>	1		

Skills	Worksheet

Analyzing Your Data VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1., _•
- 2.,
- 3. , ___
- 4. 🜓 🗡

SECTION SUMMARY

Read the following section summary.

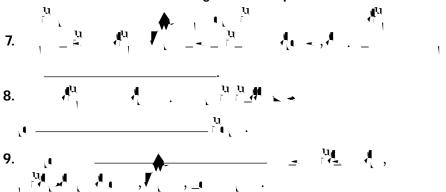
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7	٤	



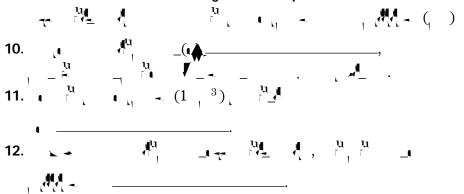
Measuring the Volume of Liquids

Use the terms from the following list to complete the sentences below.



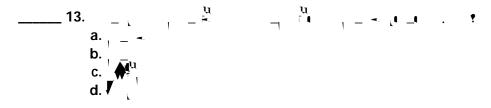
Volume of an Irregularly Shaped Solid Object

Use the terms from the following list to complete the sentences below.



MATTER AND MASS

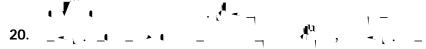
Write the letter of the correct answer in the space provided.



The Difference Between Mass and Weight

Measuring Mass and Weight

Use the teams from the following list to complete the sentences below.



- , -

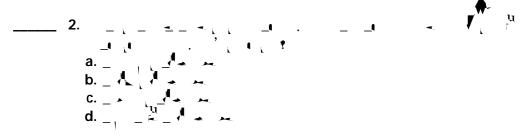
Directed Reading A

Section: Physical Properties (pp. 84-89)

Write the letter of the correct answer in the space provided.



IDENTIFYING PHYSICAL PROPERTIES



Match the correct example with the correct property. Write the letter in the space provided.

Match the correct example with the correct property. Write the letter in the space provided.

Density

Write the letter of the correct answer in the space provided.

a. *D m*

c. $D \frac{V}{m}$

Density of Solids



Density, Floating, and Sinking

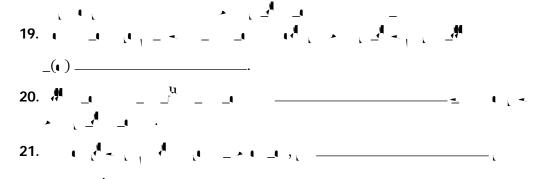


Liquid Layers



PHYSICAL CHANGES: NO NEW SUBSTANCES

Use the terms from the following list to complete the sentences below.



Examples of Physical Changes

Write the letter of the correct answer in the space provided.

23.
a.
b.
c.

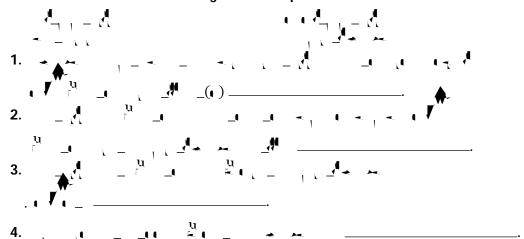
Reversibility of Physical Changes

Matter and Physical Changes

Directed Reading A

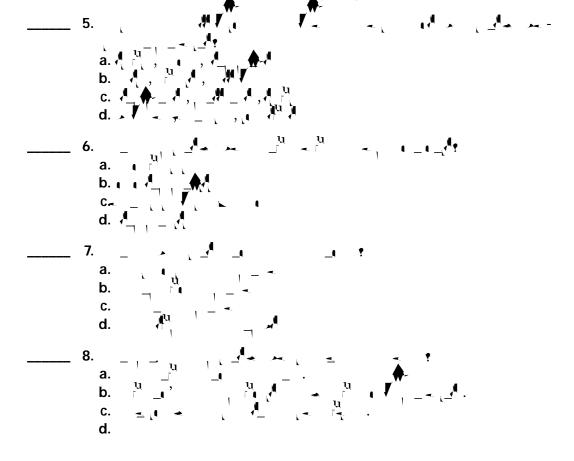
Section: Chemical Properties IDENTIFYING CHEMICAL PROPERTIES

Use the terms from the following list to complete the sentences below.



Comparing Physical and Chemical Properties

Write the letter of the correct answer in the space provided.

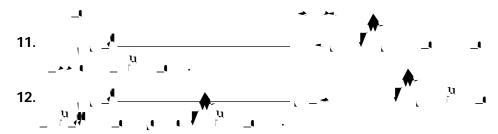


Characteristic Properties



CHEMICAL CHANGES AND NEW SUBSTANCES

Use the terms from the following list to complete the sentences below.



What Happens During a Chemical Change?

Write the letter of the correct answer in the spceg3iCvide d.

Signs of Chemical Changes

a. _ _ _ _ _ _ .

b. _ _ _ _ _ _ _ .

c. _ _ _ _ _ _ .

Matter and Chemical Changes

PHYSICAL VERSUS CHEMICAL CHANGES

Reversing Changes

What Is Matter?

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1., _ -
- 2. 📲
- 3. , i
- 4. _
- 5. **V**

SECTION SUMMARY

Readthe following section summary.

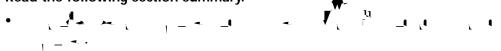
Skills	Worksheet

Physical Properties **VOCABULARY**

2. .

SECTION SUMMARY

Read the following section summary.



Chemical Properties VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. 1. A. A.

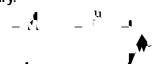
2.

SECTION SUMMARY

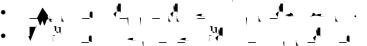
Read the following section summary.

Read the following section summary.









- · ind a de penne all

	<u> </u>
•	

- a. . . .
- b. .
- C. _ ¬
- d. (1 = _ _ ' 1 = _ _

GASES

_____10. _ _ _ !
a. _ _ _ _ _ _ .
b. _ _ _ _ _ _ _ .
c. _ _ _ _ _ _ _ .

d. , - ! . !! - . . !!.

PLASMAS

Directed Reading A

Section: Changes of State ENERGY AND CHANGES OF STATE

EVAPORATION: LIQUID TO GAS

Evaporation and Boiling

Effects of Pressure on Boiling Point

CONDENSATION: GAS TO LIQUID

SUBLIMATION: SOLID TO GAS

b. -

19. b. c. d.

TEMPERATURE AND CHANGES OF STATE

20. a. b. c.

Four States of Matter VOCABULARY

In your own words, write a definition of the following terms in the space provided.

2. 📲

3.4 L

4. _

5. 🚚 _

SECTION SUMMARY

Read the following section summary.

Changes of State VOCABULARY

In your own words, write a definition of the following terms in the space provided.



3. _____

5. **.** . _ . .

6. the thing is a

SECTION SUMMARY

Read the following section summary.

Skills Worksheet Directed Reading A

Section: Elements

Identifying Elements by Their Properties

Match the correct description with the correct term. Write the letter in the space provided.

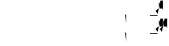


GROUPING ELEMENTS

Categories of Elements

Use the terms from the following list to complete the sentences below.



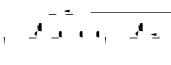












Categories Are Similar

Match the correct description with the correct term. Write the letter in the space provided.

_____ 14

4.	,	•	_ •	,	_#
	1				

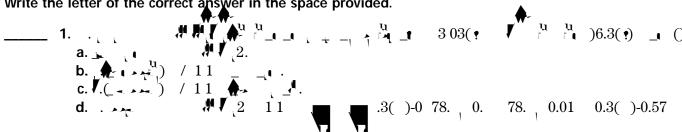
Match the correct description with the correct term. Write the letter in the space provided.

- _____ 19.اً _ , محد , را
- _____20. [1, 1, _1]

Directed Reading A

Section: Compounds

Write the letter of the correct answer in the space provided.



COMPOUNDS: MADE OF ELEMENT550.57n3R578.Tm 0.0001 Tc 0.1413 Tw [copper]]J /F1 1 Tf -5

Properties: Compounds Versus Elements

The Ratio of Elements in a Compound

d./F1Industr6.3(ue0 -127143 5D20.0)41(rTw it5 Tm -- 0.02lett)1.23pace provide1.1111 nd

Compounds in Nature

____ 12.



- a.

____ 13.

- a. i 🛌

- - C. ≤ (| 1 k) d. k (1

Directed Reading A

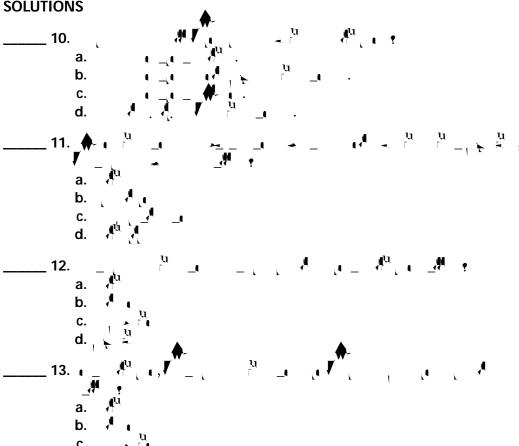
Section: Mixtures PROPERTIES OF MIXTURES

Use the terms from the following list to complete the sentences below.

Separating Mixtures Through Physical Methods

Match the correct description with the correct term. Write the letter in the space provided.

SOLUTIONS



Use the terms from the following list to complete the sentences below.

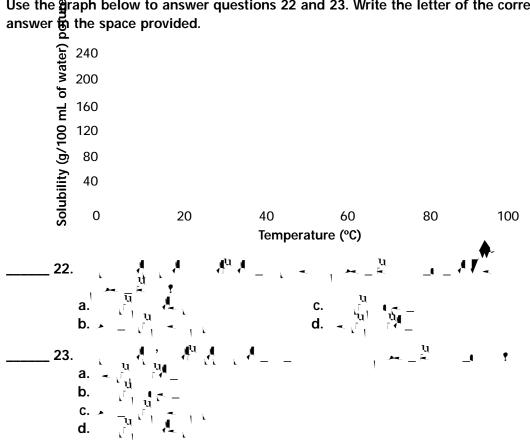


CONCENTRATION OF SOLUTIONS

Write the letter of the correct answer in the space provided.



Use the graph below to answer questions 22 and 23. Write the letter of the correct



-1 		_	
Directed Reading	A continued		

Elements

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. ₹, .

2. 🚾 🖟 🔟

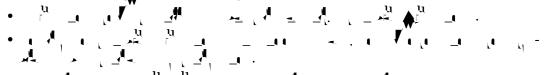
3. _.

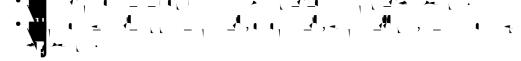
4. . . . _1

5., _# ,

SECTION SUMMARY

Read the following section summary.





Compounds

VOCABULARY

In your own words, write a definition of the following term in the space provided.

1. , . iu

SECTION SUMMARY

Read the following section summary.



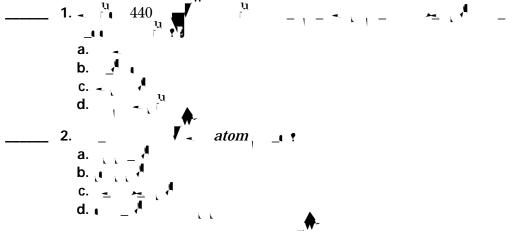
SECTION SUMMARY

Read the following section summand.

Directed Reading A

Section: Development of the Atomic Theory (pp. 164–171) THE BEGINNING OF ATOMIC THEORY

Write the letter of the correct answer in the space provided.



DALTON'S ATOMIC THEORY BASED ON EXPERIMENTS



THOMSON'S DISCOVERY OF ELECTRONS



Use the terms from the following list to complete the sentences below.

the second of the second

7. $\frac{1}{1} = \frac{1}{1} = \frac$

8.

		_	

Section: The Atom (pp. 172–179)

THE PARTS OF AN ATOM

Subatomic Particles



The Nucleus



Match the correct description with the correct term. Write the letter in the space provided.

Outside the Nucleus

Properties of Isotopes

a.

b.

The Difference Between Isotopes

b.

20.

a. 1

b. 11

c. 10

d. 16

Naming Isotopes

12 •

b. <u>-</u> 1-12

c. <u>-</u> -6

d. -18

Isotopes and Atomic Mass

 $\mathbf{d.} = \begin{bmatrix} 1 & 1 & 1 \end{bmatrix}$

Skills	Worksheet

Vocabulary and Section Summary A

Development of the Atomic Theory VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1._ ,

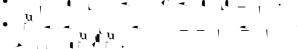
2. 🖡 👡 🕦

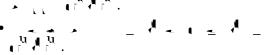
3. 1 t 1 t

SECTION SUMMARY

Read the following section summary.







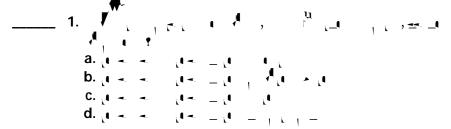


<u></u>		
Skills Worksheet		
Vocabulary and Section Summar	rv A	

The Atom VOCABULARY							

Section: Arranging the Elements (pp. 194–201) **DISCOVERING A PATTERN**

Write the letter of the correct answer in the space provided.



Periodic Properties of the Elements

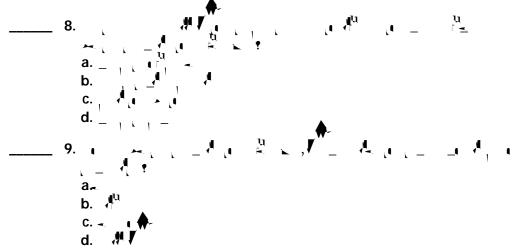
Predicting Properties of Missing Elements



CHANGING THE ARRANGEMENT

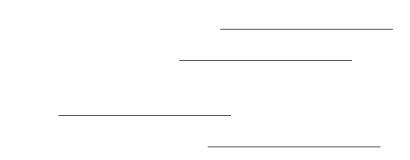


PERIODIC TABLE OF THE ELEMENTS



THE PERIODIC TABLE AND CLASSES OF ELEMENTS

Use the terms from the following list to complete the sentences below.



Directed Reading A co		· · · -	_	
DECODING THE PERIOR Chemical Symbols	DIC TABLE			
			-	

Atomic Number

- 22. a.
 - b. . .
 - c.
- 23. b. C.
- 24. b.
 - c. d. _
- 25.

Section: Grouping the Elements (pp. 202–209)

Write the letter of the correct answer in the space provided.



GROUP 1: ALKALI METALS

c. d. -

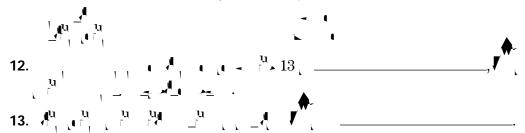
GROUP 2: ALKALINE-EARTH METALS

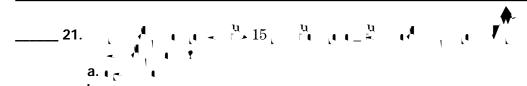
GROUPS 3–12: TRANSITION METALS

Properties of Transition Metals

GROUP 13: BORON GROUP

Use the terms from the following list to complete the sentences below.





GROUP 18: NOBLE GASES

- C. . .

18 • • • • 18 • a.

- b. ⊾
- C. -
- d. 🖊

- b. جـ ـه
- C. 🚤
- d._ . .

HYDROGEN

____ 30. _ _ \ a.

- b.
- c.

a.

- b. -

The Uniqueness of Hydrogen

_ 32.

Vocabulary and Section Summary A

Arranging the Elements VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. . .

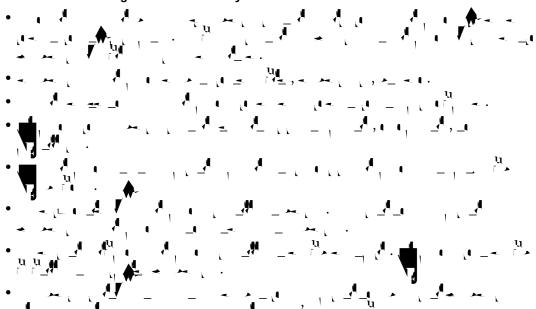
2. عد

3. - U

4. 🛌 👢

SECTION SUMMARY

Read the following section summary.



Vocabulary and Section Summary A

Grouping the Elements

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1. 4. 4. 4.

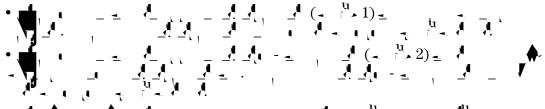
2. _! _! _ _!

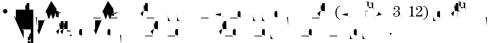
3. 🖊

4.

SECTION SUMMARY

Read the following section summary.





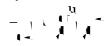


•
$$\frac{1}{\sqrt{100}} = \frac{1}{\sqrt{100}} = \frac{$$

Section: Electrons and Chemical Bonding COMBINING ATOMS THROUGH CHEMICAL BONDING



Use the terms from the following list to complete the sentences below.



7. (t) - - - (t)



8. **1**



(•) _______

TO BOND OR NOT TO BOND

Write the letter of the correct answer in the space provided.

_____ 11.

b. $\mathbf{u}^{\mathbf{u}}_{\mathbf{u}}$

d. 11 - 11 - 1

_____ 12.

b. $= \begin{bmatrix} u & 6 \\ u & 10 \end{bmatrix}$

d. 🗻 🗀 18

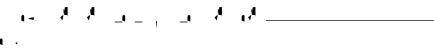
Use the terms from the following list to complete the sentences below.

ų,

13.

14. $u^{(1)} = u^{(1)} =$

15. ₋



16.



Section: Ionic Bonds FORMING IONIC BONDS

Write the letter of the correct answer in the space provided.

Charged Particles

FORMING POSITIVE IONS

- **a**. 1⁺
- **b**. 3⁺
- **c.** 2+
- **d**. 2

The Energy of Gaining Electrons

- a. 1-
- b. 🗻 🕠
- C.
- d. -

FORMING IONIC COMPOUNDS

- c. u u
- d .

- IONIC COMPOUNDS

Properties of Ionic Compounds

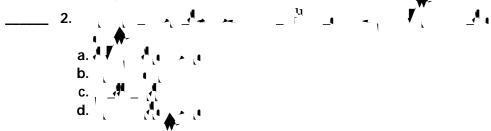
17 **A** M.V.

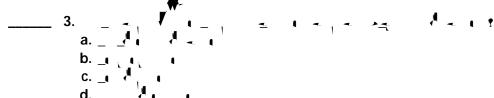


Section: Covalent and Metallic Bonds (pp. 236–241) **COVALENT BONDS**

Write the letter of the correct answer in the space provided.

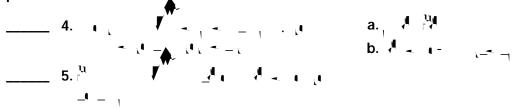






Covalent Bonds and Molecules

Match the correct description with the correct term. Write the letter in the space provided.



COVALENT COMPOUNDS AND MOLECULES



The Simplest Molecules

More-Complex Molecules

Use the terms from the following list to complete the sentences below.

12

13.

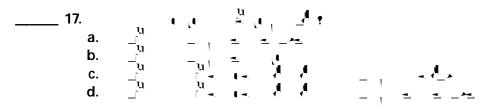
METALLIC BONDS

Use the terms from the following list to complete the sentences below.



Movement of Electrons Throughout a Metal

Write the letter of the correct answer in the space provided.



PROPERTIES OF METALS



Match the correct definition with the correct term. Write the letter in the space provided.



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Skills	Worksheet

Vocabulary and Section Summary A

Ionic Bonds

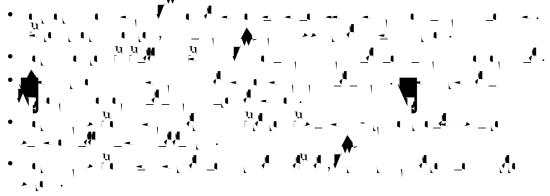
VOCABULARY

In your ow	n words, write a	definition	of the	following	terms i	in the sp	ace pro	vided.
1. ,	•							

۷٠ ۱			

SECTION SUMMARY

Read the following section summary.



Vocabulary and Section Summary A

Covalent and Metallic Bonds VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1. _∄ , , ,
- 2.

SECTION SUMMARY

Read the following section summary.

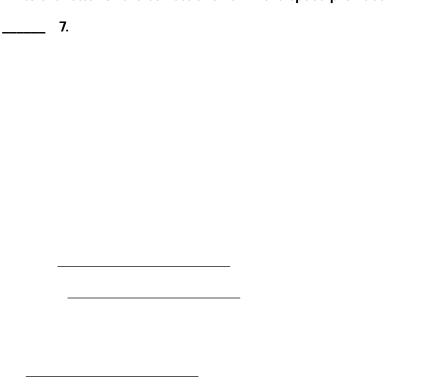
- __molecule.
- = >= , _! .!!
- A 1 A
- u , i

CL:II-	10/
SKIIIS	Worksheet

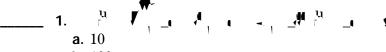
Section: Forming New Substances

Use the terms from the following list to complete the sentences below.

A Change of Properties



Section: Chemical Formulas and Equations CHEMICAL FORMULAS



- **b**. 100
- **c.** 200
- **d.** 1,000

- a. b.
 - C.

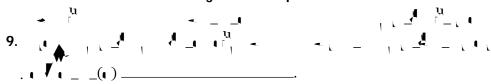
Writing Formulas for Ionic Compounds

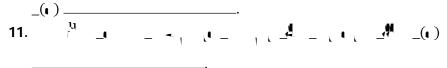
- **b**. 1
- **c.** 0
- **d**. 1

CHEMICAL EQUATIONS

Describing Reactions by Using Equations

Use the terms from the following list to complete the sentences below.





The Importance of Accuracy

Write the letter of the correct answer in the space provided.



Why Equations Must Be Balanced

b. 🗗 C. -

d. 🛌 _ 15.

How to Balance an Equation

__ 16.

- a. **b**. 2
- **c.** 2 **d**. 2

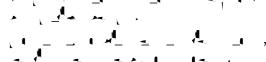
__ 18. a. b. 'u c.

Forming New Substances **VOCABULARY**

In your own words, write a definition of the following terms in the space provided.

SECTION SUMMARY





Skills	Worksheet)

Chemical Formulas and Equations VOCABULARY

n your ov 1.	vn words, writ	e a definition	ot the followi	ng terms in the	space provided
••					

Directed Reading A

Section: Ionic and Covalent Compounds (pp. 282-285)

Write the letter of the correct answer in the space provided.

IONIC COMPOUNDS AND THEIR PROPERTIES

Use the terms from the following list to complete the sentences below.



Brittleness

Write the letter of the correct answer in the space provided.



·

Solubility

Low Melting Points

Electrical Conductivity

	 _			

- b. عم_م الله عمر.

c. - d.

Acids React With Metals

Acids Conduct Electric Current

Uses of Acids

Match the correct description with the correct term. Write the letter in the space provided.

provided.
_____12. [4] a. _ _ _ _ _ a.

_____13. t

BASES AND THEIR PROPERTIES

Write the letter of the correct answer in the space provided.



- a. _1 _ 1
- b. _ _u
- c. u

_____17.

- b. 1 1
- C. L (

Bases Have a Bitter Flavor and a Slippery Feel

- a. _ _ b .
- D. _i _
- d.

- a. _ = 4
- C. _1 & .

Bases Change Color of Indicators

- a. b. - ^{¶u}
- C. _(
- d. ►...

Bases Conduct Electric Current

- b. (_____
- C. 1
- d. d = u

Uses of Bases

Match the correct description with the correct term. Write the letter in the space provided.

Directed Reading A

Section: Solutions of Acids and Bases (pp. 292–295) **STRENGTHS OF ACIDS AND BASES**

Write the letter of the correct answer in the space provided.

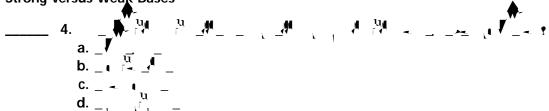


Strong Versus Weak Acids





Strong Versus Weak Bases



ACIDS, BASES, AND NEUTRALIZATION

Use the terms from the following list to complete the semences below.

Match the correct description with the correct term. Write the letter in the space provided.

Using Indicators to Determine pH

Write the letter of the correct answer in the space provided.

pH and the Environment

- - d. , _ -

- - be d
 - C.

SALTS



Uses of Salts

Match the correct description with the correct term Write the letter in the space provided.

____ 21. t



____ 23. tu

Ionic and Covalent Compounds VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 3. <u>1</u>. , , !!

SECTION SUMMARY

Skills	Worksheet

Acids and Bases **VOCABULARY**

In your own words, write a definition of the following terms in the space provided.

- 1. _ \
- 2. . _ -
- 3. _

SECTION SUMMARY

- u ·
- u . .

Skills	Worksheet

Solutions of Acids and Bases VOCABULARY

In yo	our	own	words,	write a	definition	of the	following	terms	in the	space	provid	ed.
1. (u	_ اٍر	, [<	•								

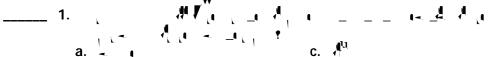
2.				

3.	_^			

Directed Reading A

Section: Elements in Living Things (pp. 310–313) THE BONDING OF CARBON ATOMS

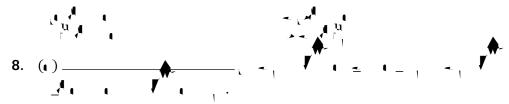
Write the letter of the correct answer in the space provided.



Carbon Backbones

Single Bonds

Use the terms from the following list to complete the sentences below.



OTHER ELEMENTS IN LIVING ORGANISMS

Write the letter of the correct answer in the space provided.

Elements in Organic Compounds

Organic Compounds-Not Just from Living Things!

C.
$$\frac{1}{2} = \frac{1}{4} = \frac$$

<u> </u>				
•				
		_		
-				

PROTEINS

Use the terms from the following list to complete the sentences below.



NUCLEIC ACIDS

Use the terms from the following list to complete the sentences below.

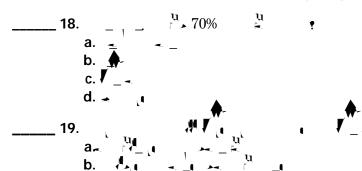
DNA AND RNA

Match the correct description with the correct term. Write the letter in the space provided.

OTHER IMPORTANT COMPOUNDS

Water

Write the letter of the correct answer in the space provided.



Salt

Skills Worksheet

Vocabulary and Section Summary A

Elements in Living Things VOCABULARY

In your own words, write a definition of the following term in the space provided.

SECTION SUMMARY



Compounds of Living Things VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1. 🛌 🔩 _
- 2.
- 3. ዹ ૄ

SECTION SUMMARY

Directed Reading A

Section: Measuring Motion

	_ 👢	 _
Directed Reading A continued		
Directed Reading A continued		

Speed Versus Velocity

_ 13.

14.

a. 600., / b. 600 // c. 600 //

d. 600

Changing Velocity

ACCELERATION

Use the terms from the following list to complete the sentences below.

4_.

. . .

V _**4**(. . . .) / 11 10.7893 0

 -

Forces in the Same Direction

Forces in Opposite Directions

BALANCED FORCES: NO CHANGE IN MOTION

a. 0 **b.** 1 **c.** 2 **d.** 3

Use the terms from the following list to complete the sentences below.

13.

14.

UNBALANCED FORCES: VELOCITY CHANGES

Use the terms from the following list to complete the sentences below.

16.

17.

Unbalanced Forces and Direction of Motion

Write the letter of the correct answer in the space provided.

a. _**√**

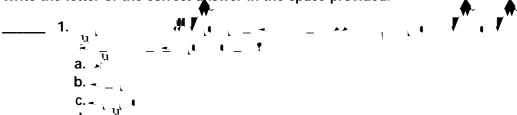
____ 21.

20.

Directed Reading A

Section: Friction: A Force That Opposes Motion (pp. 350-355)

Write the letter of the correct answer in the space provided.

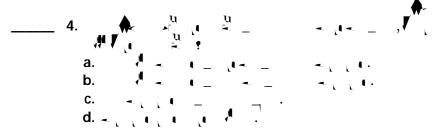


THE SOURCE OF FRICTION





The Effect of Force on Friction

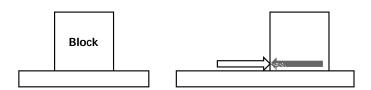


The Effect of Material on Friction



	_ '	
irected Reading A continued		
Trected Reading A continued		
6.		
0.		

Use the figures below to answer questions 13, 14, and 15. Write the letter of the correct answer in the space provided.



FRICTION: HARMFUL AND HELPFUL

d.

Ways to Reduce Friction

Ways to Increase Friction

b. <u>√</u>.

C. -. -.

Measuring Motion VOCABULARY

In your own words, write a definition of the following terms in the space provided.

1.

3. 🚜 🛴

4._ 4._ .

SECTION SUMMARY

-			
-			
-			
-			

Vocabulary and Section Summary A

Friction: A Force That Opposes Motion **VOCABULARY**

In your own words, write a definition of the following term in the space provided.

1.- , , ,

SECTION SUMMARY

Read the following section summary.





WEIGHT AND GRAVITATIONAL FORCE

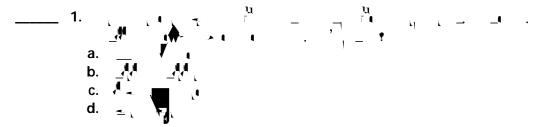
The Differences Between Weight and Mass

GRAVITY AND STATIC OBJECTS

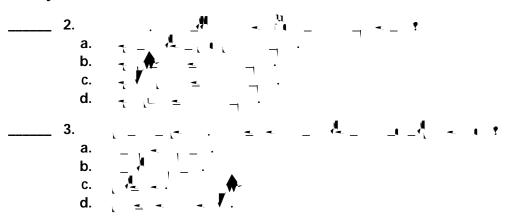
_ 16.

Section: Gravity and Motion GRAVITY AND FALLING OBJECTS

Write the letter of the correct answer in the space provided.



Gravity and Acceleration



Acceleration and Changes in Velocity

Match the correct description with the correct term. Write the letter in the space

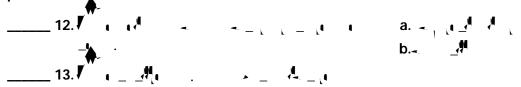
AIR RESISTANCE AND FALLING OBJECTS

Write the letter of the correct answer in the space provided.



Acceleration and Terminal Velocity

Match the correct description with the correct term. Write the letter in the space provided.



PROJECTILE MOTION AND GRAVITY

Write the letter of the correct answer in the space provided.



Horizontal Movement



Vertical Movement

___ 16. a. 🔩 _ \

____ 17.

in in the

ORBITING AND GRAVITY

a.

Section: Newton's Laws of Motion (pp. 384-391)

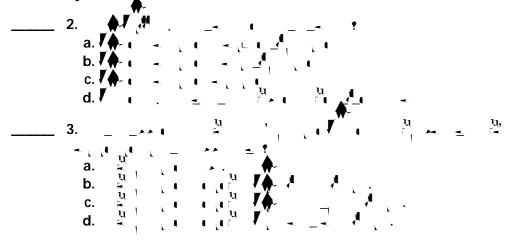
NEWTON'S FIRST LAW

Part 1: Objects at Rest

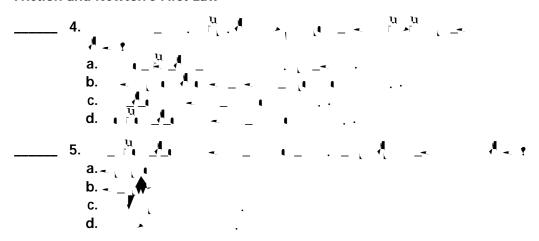
Write the letter of the correct answer in the space provided.



Part 2: Objects in Motion



Friction and Newton's First Law



Inertia and Newton's First Law

- c.

- C. _ _

Mass and Inertia

NEWTON'S SECOND LAW OF MOTION

Part 1: Acceleration Depends on Mass

____ 10.



Part 2: Acceleration and Force

- b.
- C.

Chille	Worksheet
SKIIIS	MOLKSHEEL

Skills Worksheet Vocabulary and Section Summary A

Gravity: A Force of Attraction

OCADULARI					
n your own w	ords, write a def	inition of the	following term	s in the space	provided.
1 \					
A					
2.					
3					
1					

٦					
Skills Works	heet				
Vocahi	ulary and	Section	Summ	arv A	
TOCADO	aidi y diid	Jettioi	- Juiiiiii	<u> </u>	

Vocabulary and Section Summary A

Newton's Laws of Motion **VOCABULARY**

In your own words, write a definition of the following term in the space provided.

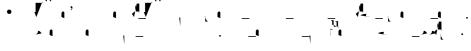
1.4- 1-

SECTION SUMMARY

Read the following aection summary.









Section: Fluids and Pressure (pp. 406–411)

Use the terms from the following list to complete the sentences below.



3.
$$\leq \sqrt{1}$$
 , $\sqrt{2}$, $\sqrt{2}$

FLUIDS AND PRESSURE

Use the terms from the following list to complete the sentences below.

Pressure and Bubbles

Write the letter of the correct answer in the space provided.

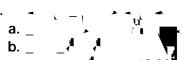


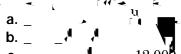
ATMOSPHERIC PRESSURE

Match the correct description with the correct term. Write the letter in the space provided.

Variation of Atmospheric Pressure

Write the letter of the correct answer in the space provided.

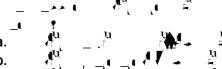




Atmospheric Pressure and Depth

Pressure Changes and Your Body

____ 16.





WATER PRESSURE

Water Pressure and Depth

___ 17.

Density and Water Pressure

a. 10 h b. 100 h c. 1,000 h

d. 8,000

d.

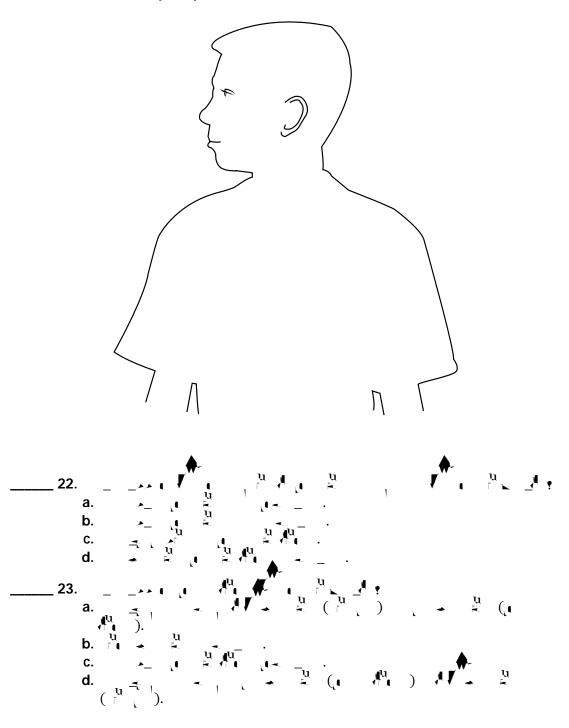
___ 19. b. \P^{u} c.

20.

PRESSURE DIFFERENCES AND FLUID FLQW

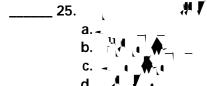
Pressure Differences and Breathing

Use the drawing below to answer questions 22 and 23. Write the letter of the correct answer in the space provided.



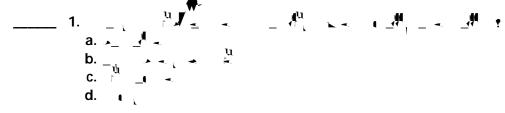
Pressure Differences and Tornadoes

__ 24. a. b.



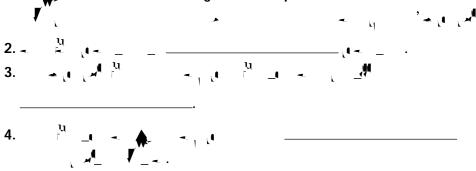
Section: Buoyancy and Density

Write the letter of the correct answer in the space provided.



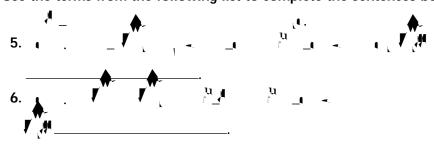
BUOYANT FORCE AND FLUID PRESSURE

Use the terms from the following list to complete the sentences below.

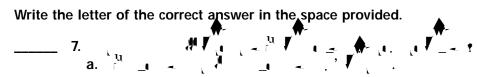


WEIGHT VERSUS BUOYANT FORCE

Use the terms from the following list to complete the sentences below.



Sinking



Floating

b.

Buoying Up

DENSITY AND FLOATING

___ 10. ___ 11.

More Dense Than Air

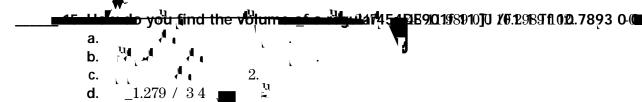
Less Dense Than Air

____ 13.

DETERMINING DENSITY



Volume of a Regular Solid



Vocabulary and Section Summary A

Fluids and Pressure

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1. 📲
- 2. -
- 3. <u>_</u>

SECTION SUMMARY

Read the following section summary.

-			
-			
-			

Section: Stars

Write the letter of the correct answer in the space provided.

COLOR OF STARS

Types of Spectra

Use the terms from the following list to complete the sentences below.



Trapping the Light: Cosmic Detective Work

Write the letter of the correct answer in the space provided.

Identifying Elements by Using Dark Lines

The Types of Elements in a Star

- a. 1_1 1
- C. 1_1 4

CLASSIFYING ŞTARS

____16. \(\bigve{V} \), \(\int \), \(\i

- a. رَـ
- b. _
- d.

Differences in Temperature

- **a.** , L
- b. _
- d. d.

Differences in Brightness

- b. 1 1 1 1 1 1 =
- C. , = 1, Fu =
- d. + - 1

- C. 7 (* 1 j) ~

22. $\frac{1}{a. 14}$ $\frac{1}{a. 14}$ $\frac{1}{a. 14}$ $\frac{1}{a. 14}$ $\frac{1}{a. 9.8}$ $\frac{1}{a. 9.8}$

HOW BRIGHT IS THAT STAR?

Apparent Magnitude

Use the terms from the following list to complete the sentences below.



DISTANCE TO THE STARS

Use the terms from the following list to complete the sentences below.



MOTIONS OF STARS

The Apparent Motion of Stars

Write the letter of the correct answer in the space provided.

_____ 27. ____ a.

Section: The Life Cycle of Stars

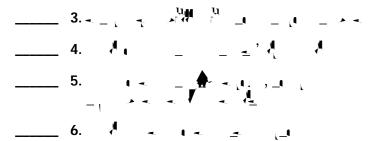
TYPES OF STARS

Write the letter of the correct answer in the space provided.



THE LIFE CYCLE OF SUNLIKE STARS

Use the terms from the following list to complete the sentences below.



A TOOL FOR STUDYING STARS

Write the letter of the correct answer in the space provided.

The H-R Diagram

- **c.** ,∟
- d. _

- **c.** ւ∟
- d. _

--- t i i i

Match the correct description with the correct term. Write the letter in the space provided.

____ 13. - -

- _____14.
- _____ 15_{*-} _ _
- ____16.4

- a. (👫) 🗻
- b. 🔥) <u>-</u>
- c. 🕌 🚤
- d. , <u>-</u>

THE AGING OF MASSIVE STARS

Use the terms from the following list to complete the sentences below.





Section: Galaxies

Write the letter of the correct answer in the space provided.

TYPES OF GALAXIES

Match the correct description with the correct term. Write the letter in the space provided.

_____ 2.

QUASARS

ORIGIN OF GALAXIES

Section: Formation of the Universe

Write the letter of the correct answer in the space provided.



THE BIG BANG THEORY

_____ 2.

Cosmic Background Radiation

_____ 6. __ i = i = i = i = i !

- C. $A = \frac{1}{10}$. $A = \frac{10}{10}$
- d. _ . < [1] < _ , 1

- C. ૄા ૨ ૧ ૄા d. ા^{તા} ા૨ દેવ_ા :

GRAVITY AND THE UNIVERSE

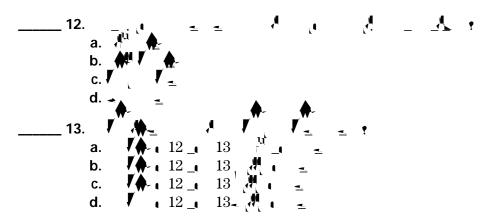
- C. ₹ _ u

- $\mathbf{d}. \leftarrow \mathbf{1} \quad \mathbf{d}.$

A Cosmic Repetition

- b. _ , _ ,
- - b. _u_1 1 1 1 1

HOW OLD IS THE UNIVERSE?



A FOREVER-EXPANDING UNIVERSE?



	A	 	
kills Worksheet)			

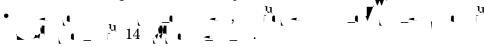
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Skills	Worksheet

Formation of the Universe **VOCABULARY**

In your own words, write a definition of the following term in the space provided.

SECTION SUMMARY



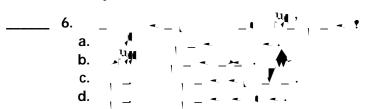
Directed Reading A

Section: A Solar System Is Born (pp. 472–479)

Write the letter of the correct answer in the space provided.

THE SOLAR NEBULA

Gravity Pulls Matter Together

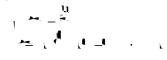


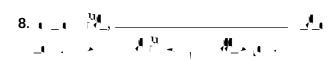
Pressure Pushes Matter Apart

Use the terms from the following list to complete the sentences below.











UPSETTING THE BALANCE

Write the letter of the correct answer in the space provided.

1 N

d.

HOW THE SOLAR SYSTEM FORMED

From Planetesimals to Planets

_____ 11.



N-1 - 4- 1 - 11 -

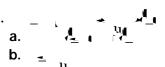
b. ¬ .

_____ 12.



C. (\)

_____ 13.



, ¹⁴_#

c. '\'\
d. \[\sigma_1 \] _1 _1 _1

The Birth of a Star

Nuclear Fusion

Conditions Required for Fusion

Fusion in the Sun

MEASURING INTERPLANTETARY DISTANCES

Match the correct description with the correct term. Write the letter in the space provided.

THE INNER AND OUTER SOLAR SYSTEMS

Match the correct description with the correct term. Write the letter in the space provided.

Directed Reading A

Section: The Inner Planets

Write the letter of the correct answer in the space provided.

1. = u terrestrial planets?

MERCURY: CLOSEST TO THE ŞUN

b. ₁¹¹

c. d.

c. _(

Days and Years on Mercury

b. 150

d. 220

Directed Read	ing A continue	ed .			
Match the correctoroutlet.	t description	with the co	rrect term. \	Write the lette	er in the space
7.					

The Atmosphere of Venus

Write the letter of the correct answer in the space provided.

MARS: THE RED PLANET

The Atmosphere of Mars

__ 21.

- b.

Water on Mars

Where Is the Water Now?

Volcanoes on Mars

- b. c.
- d.

26. b.

- c.

Directed Reading A

Section: The Outer Planets (pp. 486-491)

Write the letter of the correct answer in the space provided.

JUPITER: A GIANT AMONG GIANTS





The Exploration of Jupiter



URANUS: A SMALL GIANT

b.

A Tilted Planet

_____ 13. a.

NEPTUNE: THE BLUE WORLD

____ 15. b۔

The Weather on Neptune

____ 16. ____ 17. ___100 / c. ____ 300. / d. ___ 1,000. /

PLUTO: A DWARF PLANET

A Small World

- b. _ _ i d ~ _ _ i _ h _ i d _ _ i _ _ c.
- da . _1 ,

Beyond Pluto

_____20.

- c. the d

- **a.** 2003 313
- b. ₄^{tu}
- C. <u>-</u> (

Directed Reading A

Section: Moons

Write the letter of the correct answer in the space provided.



Eclipses

Write the letter of the correct answer in the space provided.

Match the correct description with the correct term. Write the letter in the space provided.

The Moon's Tilted Orbit

Write the letter of the correct answer in the space provided.

THE MOONS OF OTHER PLANETS

20.

a.

b.

c.

d.

d.

The Moons of Mars

The Moons of Neptune

b. - 1 = 11 - 11 11 11 = - - - .

 $\frac{d}{dt} = -\frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2} \cdot \frac{1}{2}$

The Moon of Pluto

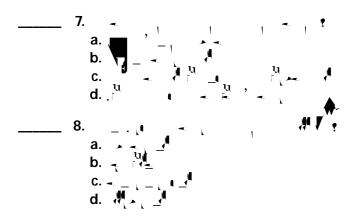
_____ 30.

Skills	Worksheet

Skills Worksheet Directed Reading A

Section: Small Bodies in the Solar System

Comet Orbits

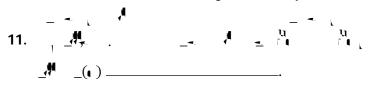


Long- and Short-Period Comets

Match the correct description with the correct term. Write the letter in the space provided.

ASTEROIDS

Use the terms from the following list to complete the sentences below.



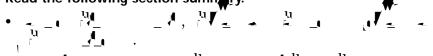
A Solar System Is Born

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 2.
- 3. _ 1 1 1 1 1 1 1 1

SECTION SUMMARY



- nebula.

The Inner Planets

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- المالي م عم .1

SECTION SUMMARY

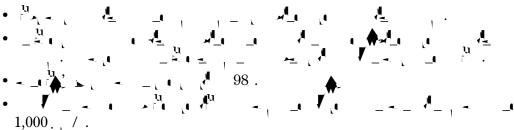
Skills	Worksheet

The Outer Planets

VOCABULARY

In your own words, write a definition of the following term in the space provided.

SECTION SUMMARY



	Skills	Worksheet
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Moons

VOCABULARY

In your own words, write a definition of the following terms in the space provided.

- 1. _ 🤻
- 2. 🗻 _
- 3.

SECTION SUMMARY



- phases.
- moons.