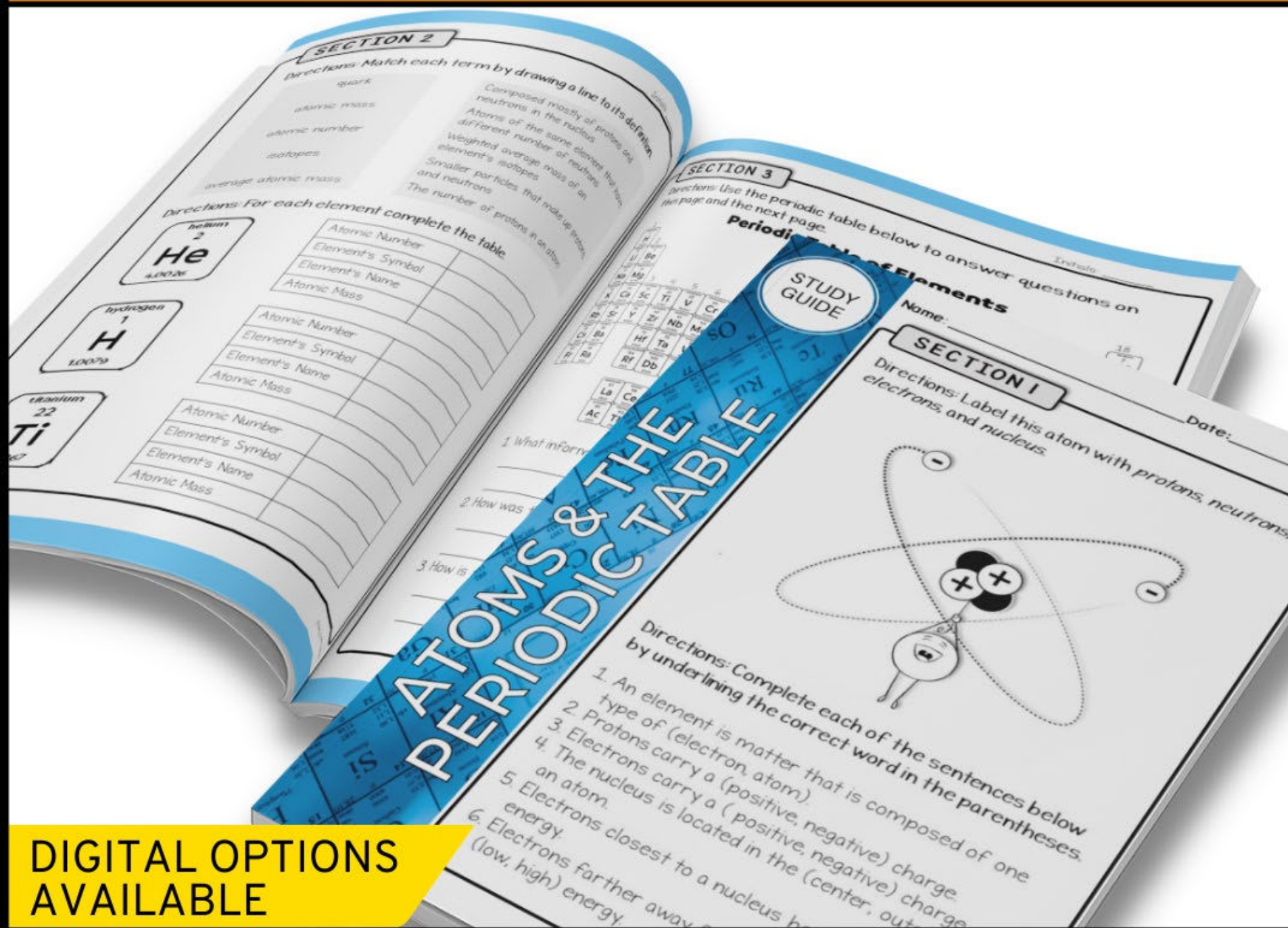




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STUDY GUIDE

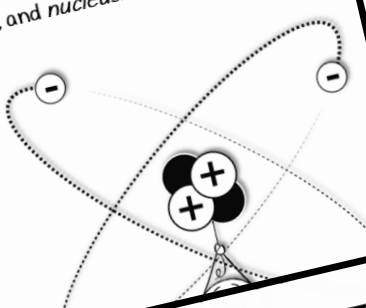
REVIEW STRATEGIES · CRITICAL THINKING

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Name: _____ Date: _____

SECTION 1

Directions: Label this atom with *protons*, *neutrons*, *electrons*, and *nucleus*.



Initials: _____

SECTION 2

Directions: Match each term to its definition.

Composed mostly of protons and neutrons in the nucleus
Atoms of the same element with different number of neutrons
Weighted average mass of an element's isotopes
Smaller particles that make up protons and neutrons
The number of protons in an atom

quark
atomic mass
atomic number
isotopes
atomic mass

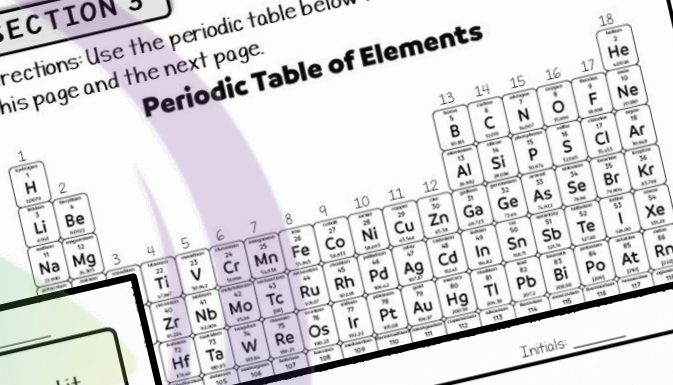
For each element complete the table.

Initials: _____

SECTION 3

Directions: Use the periodic table below to answer questions on this page and the next page.

Periodic Table of Elements



Initials: _____

SECTION 4

Directions: Answer the questions below about the periodic table.

4. What do elements in a same group share?

5. Does the atomic number increase or decrease as you move down the row on the periodic table?

6. What are the names of elements in Group 1?

7. What are the elements in Group 3–Group 12 called?

8. What are the names of the elements in Group 18?

9. The Lanthanide and Actinide series are included in which category of metals?

10. Where are the metalloids located?

Initials: _____

SECTION 5

Directions: Fill in the blank with the correct word and then find it in the word search.

A	M	C	N	O	F	H	E
L	I	C	E	M	M	K	L
K	Y	R	W	J	H	U	S
A	F	G	K	Y	Z	O	D
L	L	Y	Z	B	T	Q	I
I	X	K	D	B	B	O	O
M	S	Z	A	P	I	E	L
E	E	K	C	L	M	C	L
T	S	Q	S	V	I	O	A
A	A	B	L	W	X	N	T
L	G	T	A	E	K	Y	E
S	E	Q	T	C	V	U	M
B	L	C	E	R	O	P	Q
D	B	M	M	E	T	A	L
K	O	I	N	K	L	I	E
T	N	B	O	C	Y	T	R
R	H	F	N	P	G	B	E
Y	D	S	W	Q	E	E	K

1. _____ are good conductors of heat and electricity.

2. _____ are usually gases or brittle at room temperature.

3. The most reactive of all metals are _____.

4. _____ earth metals are shiny, ductile, and good conductors of heat and electricity.

5. The most familiar metals are called _____.

6. Elements that have both metallic and nonmetallic properties are called _____.

7. _____ exist as isolated atoms.

Initials: _____

SECTION 6

Directions: Look at the elements listed below, determine where they fit on the periodic table, and write the answer on the line.

Alkali metal
Transition metal
Metalloid
Alkaline earth metal
Noble gas

Helium	
Sodium	
Magnesium	
Silicon	
Zinc	
Potassium	
Neon	
Calcium	
Chromium	
Nickel	
Boron	
Argon	

Directions: Choose three of the elements above and give their symbol and abbreviation. Then choose one and draw its electron dot diagram.

Element	Abbreviation

Element	Electron Dot Diagram



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