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Name	Class	Date
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Chapter 5 The Periodic Table

Section 5.3 Representative Groups

(pages 139-145)

This section discusses how the number of valence electrons affects the properties of elements. It also describes properties of elements in Groups 1A through 8A.

Reading Strategy (page 139)

Monitoring Your Understanding As you read, record an important fact about each element listed in the table. For more information on this reading strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

Element	Important Fact
Magnesium	
Aluminum	
Chlorino	
Chlorine	

Valence Electrons (page 139)

- **1.** An electron that is in the highest occupied energy level of an atom is a(n) ______ electron.
- **2.** Elements within a group have the ______ number of valence electrons.

The Alkali Metals (page 140)

- **3.** The reactivity of alkali metals ______ from the top of Group 1A to the bottom.
- **4.** Sodium is stored under oil because it ______

The Alkaline Earth Metals (page 141)

5. Differences in reactivity among alkaline earth metals are shown by the way they react with ______.

Find and match two properties to each element listed.

Alkaline Earth Metal	Property
 6. magnesium	a. Helps build strong teeth and bones
 7. calcium	b. Helps plants produce sugar
	c. Is used to make lightweight bicycle frames

d. Is the main ingredient in limestone

Name	Class	Date
Chapter 5 The Po	eriodic Table	
The Boron Far	nily (page 142)	
8. List the four me	tals in Group 3A.	
a	b	
С	d	_
9. Circle the letter	of each sentence that is true about a	luminum.
a. It is the mos	t abundant metal in Earth's crust.	
b. It is often for	und combined with oxygen in bauxi	ite.
c. It is more rea	active than sodium and magnesium	
d. It is a good o	conductor of electric current.	
The Carbon Fa	amily (page 142)	
	talloids in Group 4A.	
	b	_
11. Except for wate	r, most of the compounds in your bo	ody contain
	Family (page 143)	
12. List the nonmet		
	b	
	ents in the nitrogen family that are	
a	b	_
The Oxygen Fa	amily (page 143)	
14. List the nonmet	_	
	b	
	abundant element in Earth's crust.	
The Halogens	(page 144)	
_	nmetals in Group 7A.	
	b	
	d	
17. Halogens have	similar proper properties.	
The Noble Gas		
	racteristics of noble gases.	
a	· ·	C
	ment that does not react easily with	

be useful?