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# **CLASSIFYING THE ELEMENTS**

## **Section Review**

### **Objectives**

- Describe the information in a periodic table
- Classify elements based on electron configuration
- Distinguish representative elements and transition metals

### Vocabulary

• alkali metals

noble gases

transition metals

- alkaline earth metals
- representative elements
- inner transition metals

halogens

### **Part A Completion**

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

The periodic table displays the symbols and $\underline{}$ of	1.	
the elements along with information about the structures of their		
The Group 1A elements are called, and the		
Group 2A elements are called The elements in Groups 1A		
through 7A are called the <b>5</b> The nonmetals of Group 7A		
are <u>6</u> , and the <u>7</u> make up Group 8A. Between Groups		
2A and 3A, there are8 in periods 4 through 7 and9		
in periods 6 and 7.		
The atoms of the noble gas elements have their highest occupied		
sublevels of the representative elements are $11$ .		
oadievelo of the representative elements are	11.	`
		•

### Part B True-False

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

12. Group A elements are representative elements.