DUNG					
-	_	-	_	-	
-			м		r

10	_				
-1	п	٠.			_
	ш	3	Ŧ	ĸ.	
-					

Class

outer energy level

proton



atomic structure

electron

Why do atoms combine?

Directions: Complete the sentences below using the following terms. Some of the terms may not be used.

electron dot diagram

element families

electron cl	oud	nucleus		period	
1. An element is stable	with eight elect	rons in its			
2. The closer a(n)		is to the n	ucleus, the stro	onger the attractive force.	
3. An atom's		contains its pro	tons and neuti	ons.	
4. A(n) an atom's electrons a	modere most likely to	el with dark bar o be.	ds representin	g energy levels shows where	•
The chemical symbo outer energy level is				as there are electrons in its	
6. Columns in the peri	odic table are k	nown as			
7. The number of elect	rons in a neutra	al atom increase	s by one as you	a go from left to right acros	s
* a	in the pe	eriodic table.			
8. Each element has a different		er of protons an	d electrons, so	each has a	
Directions: Answer the fe					
9. Explain how the ar	rangement of e	electrons in an a	tom is related t	to the periodic table.	
•					_

10. Use the periodic table to construct electron dot diagrams for the following elements:

aluminum, magnesium, sulfur, and bromine.