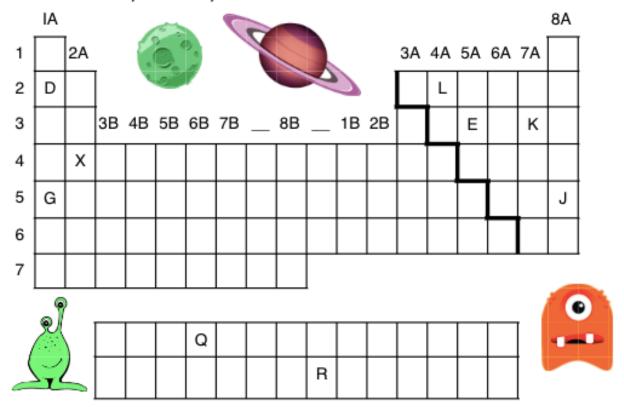
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## **Unit 2 Test Review**

1.	Which part of the atom is responsible for chemical bonding?						
2.	What are valence electrons (be specific)?						
3.	How many valence electrons do most atoms need to have a complete outer shell and be happy?						
4.	Why do atoms bond?						
<u>.</u>	Which atoms need only two valence electrons?						
ŝ.	How many valence electrons do elements in Group 1, the Alkali Metals, have?						
7.	How many valence electrons do elements in Group 2, the Alkaline Earth Metals, have?						
8.	Complete the chart:						
	Group Number Number of valence electrons  13 14 15 16 17 18						
).	How do ions form?						
0.	If an element gives away an electron, will it form a positive ion or a negative ion?						
1.	If an element gains an electron, will it form a positive ion or a negative ion?						
2.	Why does an ion have a charge (be specific)?						
13.	How do ionic bonds form?						
14.	How do covalent bonds form?						

	n the table below:				
		List at least 3 properties			
	lonic compounds				
	Covalent molecules				
your	nd the following atoms using arr r choice. Show the valence elec- sferred between atoms. Then v	ctrons and	d how they are either shared be	etween the atoms or how th	
	lonic or covalent		lonic or cov	alent	
	C CI		Mg	CI	
	Formula		Formula		
17. Fi	II in the following table	by writi	ng an "X" in the correc	et box:	
	Property		Metal	Non-Met	al
Ма	lleable				
Du	ctile				
Dul	I				
	ster				
Lus					
	or conductor				

11. The periodic table below was discovered on a mysterious planet with many unknown elements. Determine the properties of the mysterious elements using the patterns of the periodic table that you already know.



- a) Which element has 2 valence electrons?
- b) Which element is a lanthanide?
- c) Which two elements have similar properties? d) Which elements are in the same period?
- e) Which two elements both have 5 orbitals?
- f) Which two elements both have 3 orbitals

g) Which element is an actinide?

- h) Which elements are non-metals?
- i) Which element would be non-reactive?
- j) Which element has 4 valence electrons?
- k) How many valence electrons does "L" have?
- I) Which element would have a 1- charge?

- m) How many orbitals does "X" have?
- n) What charge will "D" probably take on?