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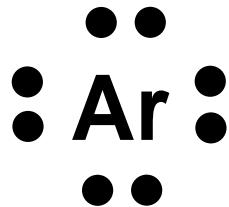
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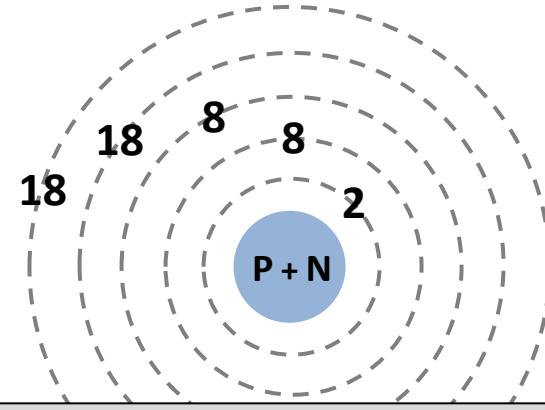


Lewis Dot Structures

Complete Lewis Dot Structures for the following eight elements. Remember, there are only two parts to a Lewis Dot Structure: the element symbol (ex. "Ar" for Argon) and the number of electrons in the valence shell (ex. eight).



A correct Lewis Dot Diagram for Argon.



How do we know Argon has eight electrons in its outer shell? Recall what we learned about how much each shell can hold...

Be	O	Ne	B	Mg	S
Na	Cl	H	P	Li	C
He	Ar	Si	N	F	Al

Now sort the 18 Lewis Dot Structures (from the front side) into the blank Periodic Table below.

		TRANSITION METALS						

1. What do you notice about the Dot Diagrams and how they relate to where elements are located in the periodic table?
2. Do you think this is a coincidence?
3. What changes about the pattern after you get into the 4th shell (which holds up to 18 electrons)?