

NAME: ANSWERS

The Periodic Table of Elements

* Draw B-K diagrams for first 20 elements

2						
10						
18						

1						
3						

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1	$1p^+ 0n^0 1e^-$	
3	$3p^+ 1e^- 4n^0 2e^-$	4 $4p^+ 2e^- 5n^0 2e^-$
11	$11p^+ 1e^- 12n^0 2e^-$	12 $12p^+ 2e^- 12n^0 2e^-$
19	$19p^+ 1e^- 20n^0 2e^-$	20 $20p^+ 2e^- 20n^0 2e^-$

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5	$5p^+ 3e^- 6n^0 2e^-$	6	$6p^+ 4e^- 6n^0 2e^-$	7	$7p^+ 5e^- 7n^0 2e^-$	8	$8p^+ 6e^- 8n^0 2e^-$	9	$9p^+ 7e^- 10n^0 2e^-$	10	$10p^+ 8e^- 10n^0 2e^-$	2	$2p^+ 2e^- 2n^0 2e^-$
13	$13p^+ 3e^- 14n^0 2e^-$	14	$14p^+ 4e^- 14n^0 2e^-$	15	$15p^+ 5e^- 16n^0 2e^-$	16	$16p^+ 6e^- 16n^0 2e^-$	17	$17p^+ 7e^- 18n^0 2e^-$	18	$18p^+ 8e^- 22n^0 2e^-$		

The Periodic Table of Elements

1. What is similar about the outer shell of electrons in the **Alkali Metals Family**?

They all have 1 electron

2. What is similar about the outer shell of electrons in the **Alkaline Earth Metal Family**?

They all have 2 electrons

3. What is similar about the outer shell of electrons in the **Halogen Family**?

They all have 7 electrons

4. What is similar about the outer shell of electrons in the **Inert Gases Family** (also called the **Noble Gases**)

The outer shell is full

5. The rows are called periods. What is similar about the electron shells as you look across a period?

period 1 = 1 shell
period 2 = 2 shells
period 3 = 3 shells, etc