

Trend _____

	1	2	3	4	5	6	7	8	9	10	11	12
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Scale 1 cm = _____

Definition of trend: _____

Names _____

Instructions: In this activity, you will need to create a 3-dimensional periodic table showing a trend of the periodic table.

Examples of trends: atomic radius, ionic radius, electronegativity, electron affinity, density, melting point, boiling point, atomic mass, 1st ionization energy, etc...

Trend: _____

1	2	3	4	5	6	7	8	9	10	11	12
Hydrogen											Helium
Lithium	Beryllium					Boron	Carbon	Nitrogen	Oxygen	Fluorine	Neon
Sodium	Magnesium					Aluminum	Silicon	Phosphorous	Sulfur	Chlorine	Argon
Potassium	Calcium					Gallium	Germanium	Arsenic	Selenium	Bromine	Krypton
Rubidium	Strontium					Indium	Tin	Antimony	Tellurium	Iodine	Xenon
Cesium	Barium					Thallium	Lead	Bismuth	Polonium	Astatine	Radon
Francium	Radium										

Label each element. Print off Periodic table (under administrivia) at 45%. The groups of elements will line up under microwell plate. Label each straw (with the element).

You will be required to fill in the data table with the values you will use for all "s" and "p-orbital" elements (groups 1,2, 13-18). Include the scale you used.

Remember, the straw fits 1.0 cm into the 96-microwell plate.

Define the term you are showing in your periodic graph. You may use the bottom two rows to show the trends of the lanthanide and actinide series (if available).