

Name : _____ Date : _____

Lab Periodic Trends Worksheet

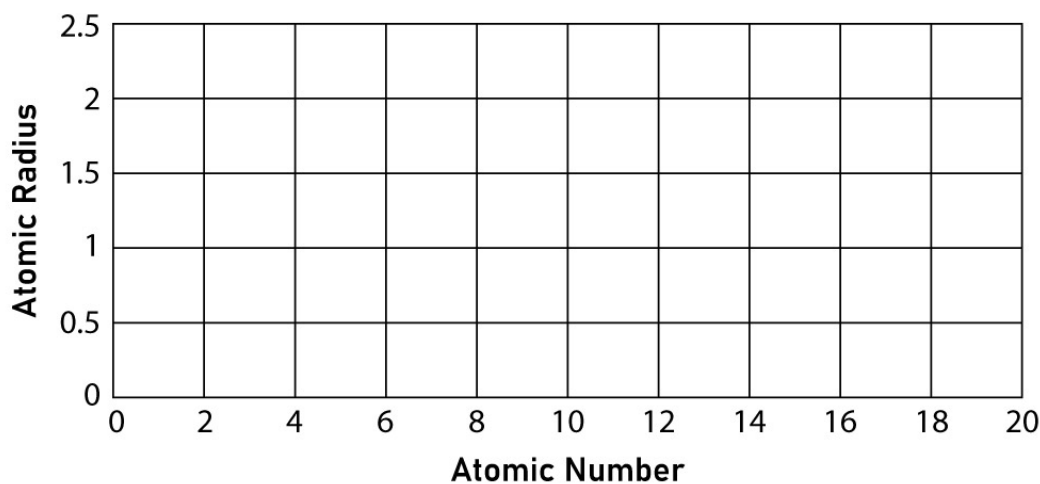
The atomic and the ionic radius of the first 18 elements of the periodic table are given below.

Element	H	He	Li	Be	B	C	N	O	F
Atomic Number	1	2	3	4	5	6	7	8	9
Atomic Radius (Å)	0.79	0.49	2.05	1.4	1.17	0.91	0.75	0.65	0.57
Ionic Radius (Å)	0.012	-	0.76	0.35	0.23	0.16	0.13	1.4	1.33

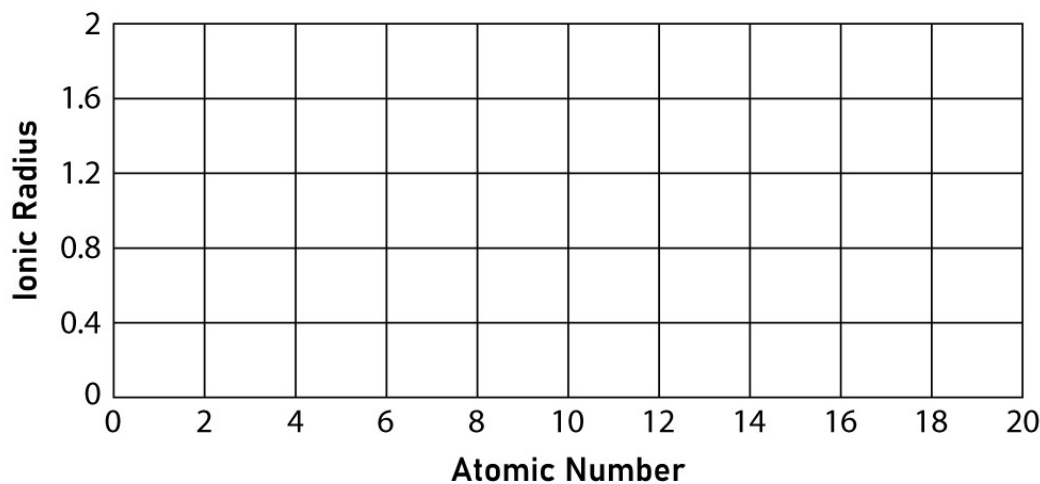
Ne	Na	Mg	Al	Si	P	S	Cl	Ar
10	11	12	13	14	15	16	17	18
0.38	2.23	1.72	1.82	1.46	1.23	1.09	0.97	0.71
-	1.02	0.72	0.535	0.4	0.38	0.37	1.81	-

Using the data above, construct the line graph of atomic radius vs. atomic number and ionic radius vs. the atomic number.

Atomic Radius vs. Atomic Number



Ionic Radius vs. Atomic Number



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Answers

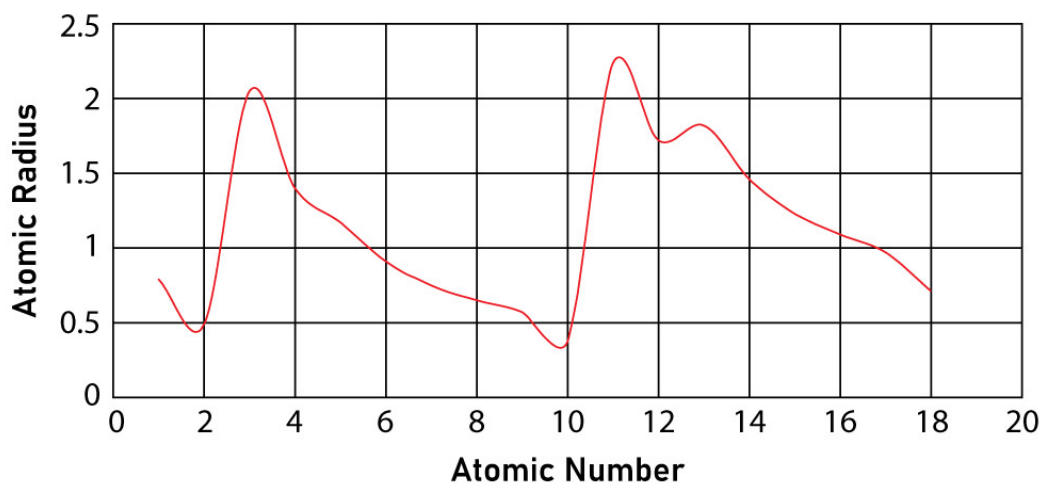
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Atomic Radius vs. Atomic Number



Ionic Radius vs. Atomic Number

