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Quiz	10	f	

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Electron Configurations Chemical Periodicity

- 1) Arrange these elements in order of increasing ionization energy: Cl, Ne, Na, and Si.
- 2) Arrange these elements in order of increasing size or radius: P, S, K.
- 3) Arrange these elements by increasingly negative electron affinity: Kr, Se, As, Br.
- 4) For the element with an electron configuration of [Ar] 3d¹⁰ 4s²
- a) What element is it?
- b) Is the element paramagnetic or diamagnetic?
- c) How many unpaired electrons does the 2+ ion have?
- 5) Which rules (if any) are violated by these ground state electron configurations?

4s 3d 4p Rules violated