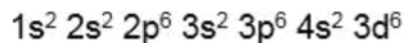


Quiz 2

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1. What element has the following electron configuration?



Iron

2. Which element has 14 protons, 17 neutrons, and 15 electrons?

↳ only Silicon has 14 protons

3. Select the element(s) that could have an electron with the following set of quantum numbers. Select all that are correct.

$[3, 2, -2, +\frac{1}{2}]$

3d → need to find elements that have a 3d

Check all that apply.

- Silver $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^4 d^{10}$ as part of the e⁻ config
- Arsenic $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^3$
- Calcium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$
- Carbon $1s^2 2s^2 2p^2$
- Magnesium $1s^2 2s^2 2p^6 3s^2$

4. Calculate the average mass of an element using the information in the table below.

Isotope	Exact Mass (amu)	Natural Abundance (%)
A	17.8966	29.2
B	19.8869	16.62
C	22.00112	54.18

$$= 17.8966(0.292) + 19.8869(0.1662) + 22.00112(0.5418)$$

20.45

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