

Atomic Theory I Check Point

✓ Atomic Structure

Name:

Date:

Block:

1. The table below contains information about two ions. Complete the missing components.

Element Symbol	Element Name	Atomic Number	Mass Number	Number of protons	Number of neutrons	Number of electrons
Ti ⁴⁺		22				
		16				18

2. The table below contains information about two isotopes. Complete the missing components.

Nuclear Symbol	Isotope Name	Atomic Number	Mass Number	Number of protons	Number of neutrons	Number of electrons
	Carbon-14					
				12	15	

3. Use the following table to calculate the average atomic mass of silicon.

Isotope	% Abundance	Mass (amu)
²⁸ Si	92.21%	27.977
²⁹ Si	4.70%	28.976
³⁰ Si	3.09%	30.11

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