

Name Sample Problems Period A11
 College Prep Chemistry of the Earth

Assignment 6B – Atomic and Molar Mass

20 Points

Determine the atomic mass (amu), and molar mass (g/mol) for the following isotopes, and the average atomic mass (amu and g/mol) based on the periodic table.

Isotope	Carbon-12	Carbon-13	Carbon-14
Atomic Mass (amu)	12 amu	13 amu	14 amu
Molar Mass (g/mol)	12 g/mol	13 g/mol	14 g/mol
Avg Atomic Mass (g/mol, periodic table)	12.01 g/mol ← Periodic Table		

Isotope	Oxygen-16	Oxygen-17	Oxygen-18
Atomic Mass (amu)			
Molar Mass (g/mol)			
Avg Atomic Mass (g/mol, periodic table)			

Isotope	Magnesium-24	Magnesium-25	Magnesium-26
Atomic Mass (amu)			
Molar Mass (g/mol)			
Avg Atomic Mass (g/mol, periodic table)			

Isotope	Iron-54	Iron-56	Iron-58
Atomic Mass (amu)			
Molar Mass (g/mol)			
Avg Atomic Mass (g/mol, periodic table)			

Isotope	Antimony-121	Antimony-123	Antimony-125
Atomic Mass (amu)			
Molar Mass (g/mol)			
Avg Atomic Mass (g/mol, periodic table)			

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12.01
Molar Mass (g/mol)