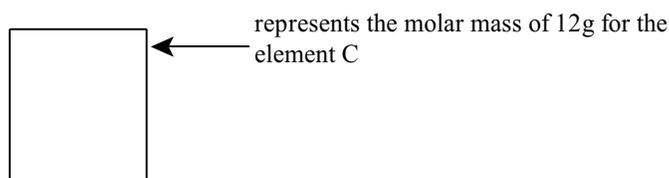


The Mole and The Periodic Table

The periodic table can be used for more than determining valence and chemical bonds. The weight of a mole of atoms of an element can be found easily on the table:



Use the periodic table to fill in the chart below:

ELEMENT	MOLAR MASS (g mol ⁻¹)	No. of MOLES	MASS	No. of ATOMS
Tin		1		
Carbon		1		
Iron		0.5		
	32g		1.6g	
Zinc		0.1		
	52g	0.1		
Arsenic				6×10^{23}
Xenon				3×10^{23}
Silver		0.1		
	64g		6.4g	
Uranium		5		
	84g			1.5×10^{23}
Palladium		0.25		
Boron		3		
Aluminum			54g	
	12g		3.6g	
Potassium	39g			6×10^{22}