



The National Orthodox School /Shmaisani

Subject: Science/ Chemistry

Name:

Class activity/ Atomic structure

Date:

Grade-Section: 7CS

Objective: To be able to describe an element by its atomic structure.

(Activity 1) Fill in the table below using the periodic table.

Element	Symbol	Atomic number	Mass number	Number of electrons	Number of protons	Number of neutrons
Boron	B	5	11	5	5	6
Neon	Ne	10	20	10	10	10
Aluminium	Al	13	27	13	13	14
Sodium	Na	11	23	11	11	12
Magnesium	Mg	12	24	12	12	12
Krypton	Kr	36	84	36	36	48
Fluorine	F	9	19	9	9	10





The Periodic Table of the Elements

Group

I	II	III										IV	V	VI	VII	0		
6.9 Li lithium	9.0 Be beryllium											1.0 H hydrogen	10.8 B boron	12.0 C carbon	14.0 N nitrogen	16.0 O oxygen	19.0 F fluorine	20.2 Ne neon
23.0 Na sodium	24.3 Mg magnesium											27.0 Al aluminium	28.1 Si silicon	31.0 P phosphorus	32.1 S sulfur	35.5 Cl chlorine	39.9 Ar argon	
39.1 K potassium	40.1 Ca calcium	45.0 Sc scandium	47.9 Ti titanium	50.9 V vanadium	52.0 Cr chromium	54.9 Mn manganese	55.8 Fe iron	58.9 Co cobalt	58.7 Ni nickel	63.5 Cu copper	65.4 Zn zinc	69.7 Ga gallium	72.6 Ge germanium	74.9 As arsenic	79.0 Se selenium	79.9 Br bromine	83.8 Kr krypton	
85.5 Rb rubidium	87.6 Sr strontium	88.9 Y yttrium	91.2 Zr zirconium	92.9 Nb niobium	95.9 Mo molybdenum	- Tc technetium	101 Ru ruthenium	103 Rh rhodium	106 Pd palladium	108 Ag silver	112 Cd cadmium	115 In indium	119 Sn tin	122 Sb antimony	128 Te tellurium	127 I iodine	131 Xe xenon	
133 Cs caesium	137 Ba barium	139 La lanthanum	178 Hf hafnium	181 Ta tantalum	184 W tungsten	186 Re rhenium	190 Os osmium	192 Ir iridium	195 Pt platinum	197 Au gold	201 Hg mercury	204 Tl thallium	207 Pb lead	209 Bi bismuth	- Po polonium	- At astatine	- Rn radon	
87 Fr francium	88 Ra radium	89 Ac actinium	104 Rf rutherfordium	105 Db dubnium	106 Sg seaborgium	107 Bh bohrium	108 Hs hassium	109 Mt meitnerium	110 Uu ununilium	111 Uuu unununium	112 Uub ununbium	114 Uuq ununquadium	114	116 Uuh ununhexium	116	118 Uuo ununoctium		

relative atomic mass
atomic symbol
name
atomic number

Key

1
H
hydrogen

2
He
helium

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lanthanides *		III										IV	V	VI	VII	0	
140 Ce cerium	141 Pr praseodymium	144 Nd neodymium	- Pm promethium	150 Sm samarium	152 Eu europium	157 Gd gadolinium	159 Tb terbium	163 Dy dysprosium	165 Ho holmium	167 Er erbium	169 Tm thulium	173 Yb ytterbium	175 Lu lutetium				
actinides *		III										IV	V	VI	VII	0	
- Th thorium	- Pa protactinium	- U uranium	- Np neptunium	- Pu plutonium	- Am americium	- Cm curium	- Bk berkelium	- Cf californium	- Es einsteinium	- Fm fermium	- Md mendelevium	- No nobelium	- Lw lawrencium				