



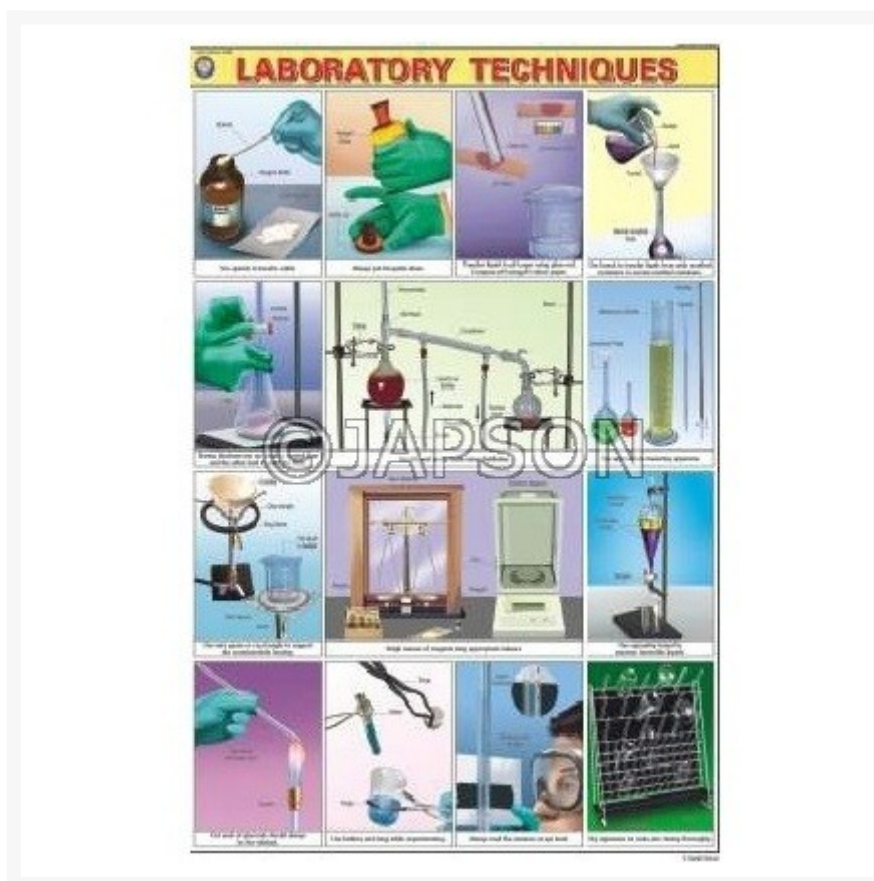
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# Chemistry Lab Display Charts, School Education

## Product Image



## Description

**Standard Size:** 70x100cms

**Language:** English

Synthetic Charts with Plastic Rollers. These Charts have technically accurate and detailed description in vivid colours.

**Note:** Based on minimum order quantity conditions, Charts can be customized to your requirements in terms of CONTENT, LANGUAGE, SIZE, etc. Please write back to us for discussion.

A. Charts, Laboratory Techniques



B. Charts, pH Colour Chart



C. Charts, Laboratory First Aid

D. Charts, Laboratory Safety



E. Charts, Modern Periodic Table Of The Elements (Long Form )

**MODERN PERIODIC TABLE OF THE ELEMENTS**  
**LONG FORM**

Groups: IA, IIA, IIIA, IVA, VA, VIA, VIIA, 0, IIB, IB, VII, VIB, VIB, VB, VB, IVB, IIIB, IIA, IA

Periods: 1, 2, 3, 4, 5, 6, 7

Metals, Nonmetals, Metalloids

Lanthanides, Actinides

UNEX

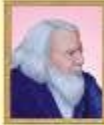
6 Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu

7 Th Pa U No Pu Am Cm Bk Cf Es Fm Md No Lr

F. Charts, Mendeleev's Periodic Table

# MENDELEEV'S PERIODIC TABLE

**THE PROPERTIES OF ELEMENTS ARE A PERIODIC FUNCTION OF THEIR ATOMIC MASSES.**



**RESULTS OF MENDELEEV'S CLASSIFICATION OF ELEMENTS**

- Mendeleev's periodic law predicted the existence of some elements that had not been discovered at that time.
- Mendeleev's periodic table could predict the properties of several elements on the basis of their positions in the periodic table.
- Mendeleev's periodic table could accommodate noble gases when they were discovered.

**ANOMALIES OF MENDELEEV'S CLASSIFICATION OF ELEMENTS**

- The position of Helium could not be explained.
- Wrong order of atomic masses of some elements could not be explained.
- A correct position could not be assigned to hydrogen in the periodic table.

Group → Silver  
Symbol → Ag  
Atomic Mass → 107.87

PERIOD	GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V	GROUP VI	GROUP VII	GROUP VIII
	R'O	RO	R'O <sup>2</sup>	RH <sup>2</sup> RO <sup>2</sup>	RH <sup>3</sup> R'O <sup>3</sup>	RH <sup>4</sup> RO <sup>4</sup>	RH <sup>5</sup> R'O <sup>5</sup>	
1	Hydrogen (H) = 1.008							
2	Lithium (Li) = 6.939	Beryllium (Be) = 9.012	Boron (B) = 10.81	Carbon (C) = 12.011	Nitrogen (N) = 14.007	Oxygen (O) = 16.003	Fluorine (F) = 18.998	
3	Sodium (Na) = 22.99	Magnesium (Mg) = 24.31	Aluminium (Al) = 26.98	Silicon (Si) = 28.09	Phosphorus (P) = 30.974	Sulphur (S) = 32.06	Chlorine (Cl) = 35.453	
4	Potassium (K) = 39.103	Calcium (Ca) = 40.08	Scandium (Sc) = 44.96	Titanium (Ti) = 47.88	Vanadium (V) = 50.94	Chromium (Cr) = 52.00	Manganese (Mn) = 54.94	Iron (Fe) = 55.85, Cobalt (Co) = 58.93, Nickel (Ni) = 58.71
5	Copper (Cu) = 63.54	Zinc (Zn) = 65.37	Gallium (Ga) = 69.72	Germanium (Ge) = 72.58	Arsenic (As) = 74.92	Selenium (Se) = 78.96	Bromine (Br) = 79.904	
6	Rubidium (Rb) = 85.47	Strontium (Sr) = 87.62	Yttrium (Y) = 88.91	Zirconium (Zr) = 91.22	Niobium (Nb) = 92.91	Molybdenum (Mo) = 95.94	Technetium (Tc) = 99	Rhodium (Rh) = 101.07, Rhenium (Re) = 102.57, Palladium (Pd) = 106.4
7	Silver (Ag) = 107.87	Cadmium (Cd) = 112.40	Indium (In) = 114.82	Tin (Sn) = 118.69	Antimony (Sb) = 121.75	Tellurium (Te) = 127.60	Iodine (I) = 126.90	
8	Caesium (Cs) = 132.90	Barium (Ba) = 137.34	Lanthanum (La) = 138.91	Cerium (Ce) = 140.12				
9								
10			Ytterbium (Yb) = 173.04	Hafnium (Hf) = 178.49	Tantalum (Ta) = 180.95	Tungsten (W) = 183.85		Osmium (Os) = 192.2, Iridium (Ir) = 192.22, Platinum (Pt) = 195.08
11	Gold (Au) = 196.97	Mercury (Hg) = 200.59	Thallium (Tl) = 204.37	Lead (Pb) = 207.19	Bismuth (Bi) = 208.98			
12				Thorium (Th) = 232.04		Uranium (U) = 238.03		

[In the formula for oxides and hydroxides, the letter 'R' is used to represent any of the elements in the group.]

## Disclaimer

The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.