

NEW KALPANA CHAWLA COLLEGE OF EDUCATION

Science and Mathematics Edu. Resource Center

Photographs of our SMERC



Science and Mathematics Education Resource Center

<u>Physics</u>		
	<u>Apparatus</u>	
Sr. No.	Item	Amount
1	Physical Balance (With wt.)	2
2	Voltmeter	3
3	Ammeter	2
4	Galvanometer	2
5	PN Junction Diode	1
6	Battery Eliminator	1
7	Rheostat	5
8	Optical Bench	1
9	Bar Magnets	8
10	Glass Slab	10
11	Horse Shoe Magnet	4
12	Compass	4
13	Meter rod	2
14	Vernier Callipers	5
15	Prism	8
16	Spring Balance	4
17	Dry Cell	4
18	Drawing Pins	1 Pkt
19	Ole Pins	1 Pkt
20	Mirrors	

	Convex	5
	Plane	5
	Concave	5
21	Lens	
	Double Convex	5
	Double Concave	5
	Convexo Concave	5
	Concavo Convex	5
	Plane Convex	5
	Plane Concave	5
22	Plug Key	8
23	Resistance Coil	5
24	Resistance Box (100 Ohm)	1
25	Daniel Cell	4
26	Leclanche Cell	4
27	Thermometer	4
28	Tuning Fork	8
29	Rubber Pad	2
30	Copper Strip	2
31	Zinc Strip	2
32	Fahrenheit Thermometer	1
33	Electric Bell Model	1
34	Sonometer with Weights	1
35	Resonance Apparatus	1
36	Meter Bridge	1
37	Potentiometer	1
38	Inclined plane (Comple Set)	1
39	Screw Guaze	4
40	AC Supply for Sonometer	1
41	Electronmagnet for Sonometer	1
42	Drawing Board	5
43	Wtton Thread Roll	1

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Chemistry Lab

	Apparatus	
Sr. No.	Item	Qty
1	Plastic water Trough	1
2	Water Glass	6
3	Test tube Stand	6
4	Test tubes	24
5	Test Tube Brush	12
6	Reagent Bottles	24
7	Conical Flasks (250 ml.)	4
8	Beaker (500 ml.)	6
9	Beaker (250 ml.)	12
10	Beaker (100 ml.)	6
11	China Dish	6
12	Spirit Lamp	8
13	Test tube Holder	12
14	Tripod Stand	9
15	Wire Gauze	12
16	Filter Paper	3 Pkt
17	Glass Rod	6
18	Glass Tube	12
19	Burette	4
20	Measuring Cylinder	5
21	Pipette	2
22	Gas Jars	6
23	Boiling Tubes	12
24	Iron Stand	6
25	Spirit	1 Litre
26	Round Botton Flask (250 ml)	2

Chemical & Metals

Sr. No.	Item	
1	Copper Turning	
2	Copper Wires	

3	Iron Filing	
4	Iron Strips	
5	Magnesium Ribbon	
6	Aluminium Wire	
7	Aluminium Strips	
8	Zinc Granules	
9	Sodium metal	
10	HCl	500ml
	Benzene	500ml
	Methyl Orange Solution	125 ml
	Phenol Red Soutlion	125 ml
	Ammonium Solution	500ml
	Ethyl Alcohol	500 ml
	Plastic Funnel	6
	Pestel & Mortar	1 Set
	Phenolphthalein Solution	125 ml
11	H ₂ SO ₄	500ml
12	HNO ₃	500ml
13	H ₃ PO ₄	
14	NaOH	500 gm
15	KOH	500 gm
16	NaCl	500 gm
17	KCl	
18	AlCl ₃	
19	FeCl ₂	
20	BaCl ₂	
21	Na ₂ CO ₃	
22	NaHCO ₃	
23	CuSO ₄	500 gm
24	FeSO ₄	
25	PbNO ₃	
26	NH ₄ Cl	500 ml
27	Universal Indicator (Red /Blue)	1+1=2 pkt
28	pH Papers	
29	pH Solution	
30	Acetone	500ml
31	Methylene Blue	500ml
32	Fehling's Solution-A	500ml
33	Fehling's Solution-B	500ml
34	Benedict's Reagent	500ml
35	Acetic Acid Glacial	500ml
Charts		
1	Importants of Science	
2	Periodictable	

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Biology

Sr. No.	Item	Qty
1	Dissecting Microscope	1
2	Compound Microscope	1
3	Brush	6
4	Glass Slides	1 Pkt (50 No.)
5	Cover Slips	2 Pkt (70 No.)
6	Hand lens	2
7	Ganong's Light Screen	2
8	Dropping Bottle	4
9	Specimen	7
10	Watch Glass	12
12	Tongs	11
13	Needles	12
14	Forceps	4
15	Scissors	2
16	Dropper	12
17	Saframine,	
18	Glycerine	
19	Iodine	
20	Wash Bottle	6
21	Plastic Slide Box	1
22.	Wooden Bottle Stand	1
	<u>Model & Charts</u>	
Sr. No.	Item	Amount
1	Plant Cell	4

2	Animal Cell	4
3	Respiratory System	4
4	Safety Rules for Science Laboratory	1
5	Digestion System	4
6	Circulatory System	4
7	Excretory System	4
8	Cell Divisions	4
9	Parts of Plant	4
10	Structure of Leaf	2
11	Parts of Flower	4
12	Modification of Root Stem And Leaves	4
13	Endocrine Glands	1
14	Muscular System	1
15	Nervous System	1
16	Human Physiology	1
17	Skeleton	1
18	Ear	1
Models of Human Organs		
1	Heart	1
2	Eye	1
3	Ear	1
4	Brain	1
5	Human Skeleton	1

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SCIENCE AND MATHEMATICS EDUCATION RESOURCE CENTER

<u>Material</u>	<u>Name of charts</u>
<ol style="list-style-type: none">1. Abacus2. Geometrical Tool Box3. Wooden Shapes of a Square, Rectangle, Triangle, Circle,4. Mensuration Kit5. Pythagoras theorem6. Hollow Sphere7. Stencil of Geometrical Shapes8. Square Papers9. Graph Sheets10. Coloured Papers11. White Sheets of Papers12. Fevi Stick13. Fevicol Tubes14. Pair of Scissors	<ol style="list-style-type: none">1. Need & Importance of Mathematics Lab2. Trigonometric table3. Mode4. Type of triangle –on the basis of angles5. Right circular Cone <p data-bbox="675 1136 963 1178"><i>Name of models</i></p>
	<ol style="list-style-type: none">1. Measurement of angles2. Types of triangles on the basis of sides3. Cone4. Types of triangle5. Area of circle6. Types of triangles on the basis of angles7. Algebraic identities8. Sum of angles of triangles is 1809. Geo – board10. Cube cuboids (solid form)11. Difference between vol. of cylinder & cone12. Congruency of triangles13. Height and distance14. Area of cross roads