

KALPANA CHAWLA COLLEGE OF EDUCATION FOR WOMEN

Science and Mathematics Resource Center

Photographs of our SMERC



Physics

Apparatus

<u>Sr. No.</u>	<u>Item</u>	<u>Qty</u>
1	Physical Balance (With wt.)	4
2	Zener Diode Characterstic Apparatus	1
3	Voltmeter	6
4	Ammeter	4
5	Galvanometer	4
6	PN Junction Diode	1
7	Ohm's Law Apparatus	1
8	Battery Eliminator	1
9	Rheostat	10
10	Optical Bench	1
11	Sonometer with Weights	1
12	Bar Magnets	10
13	Glass Slab	20
14	Horse Shoe Magnet	8
15	Compass	8
16	Meter rod	4
17	Vernier Callipers	8
18	Prism	16
19	Spring Balance	8
20	Dry Cell	8

21	Drawing Pins	1 Pkt
22	Ole Pins	1 Pkt
23	Mirrors	
	Convex	10
	Plane	10
	Concave	10
24	Lens	
	Double Convex	10
	Double Concave	10
	Convexo Concave	10
	Concavo Convex	10
	Plane Convex	10
	Plane Concave	10
25	Plug Key	10
26	Resistance Coil	10
27	Resistance Box (500 Ohm)	1
28	Daniel Cell	8
29	Leclanche Cell	8
30	Thermometer	4
31	Audio Frequency Generator	2
32	DC Regulated Power Supply	1
33	Operational AmplifierKit	1
34	Sine Wave Generator	1
35	Common Emmitter Transistor Amplifier	1
36	FET Common Source Amplifier	1
37	Tuning Fork	8
38	Verification of Maximum power Transfer Theorem	1
39	Rubber Pad	2
40	Drawing Boards	10
41	Wotton thread Roll	1
	Charts	
Sr.No.	Item	Qty
1	Simple Machines	1
2	Light	1
3	Petroleum	1
4	Nuclear Energy	1
5	Extraction Of Iron	1
6	Balance	1

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CHEMISTRY

<u>Apparatus</u>		
Sr. No.	Item	Qty
1	Glass water Trough	1
2	Water Glass	12
3	Test tube Stand	12
4	Test tubes	48
5	Reagent Bottles	48
6	Conical Flasks (250 ml.)	4
7	Beaker (500 ml.)	12
8	Beaker (250 ml.)	24
9	Beaker (100 ml.)	12
10	China Dish	12
11	Spirit Lamp	4
12	Test tube Holder	12
13	Tripod Stand	4
14	Wire Gauze	16
15	Filter Paper	1 Pkt
16	Glass Rod	12
17	Glass Tube	32
18	Burette	2
19	Measuring Cylinder	4
20	Pipette	4
21	Gas Jars	12
22	Test Tube Brush	12
23	Boiling Tubes	24
24	Iron Stand	4
25	Spirit	1 liter

Sr. No.	Item	Qty.
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
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	
17	KCl	
18	AlCl ₃	
19	FeCl ₂	
20	BaCl ₂	500 gm
21	Na ₂ CO ₃	
22	NaHCO ₃	
23	CuSO ₄	500 gm
24	FeSO ₄	
25	PbNO ₃	
26	NH ₄ Cl	500 gm
27	Universal Indicator (Red /Blue)	5+5= 10 Pkt
28	pH Papers	3 Pkt
29	pH Solution	
30	Acetone	500ml
31	Leishman's Stain	500ml
32	Methylene Blue	500ml
33	Ethanol	500ml
34	Fehling's Solution-1	500ml
35	Fehling's Solution-2	500ml
36	Benedict's Regent	500ml
37	Acetic Acid Glacial	500ml
38	Ammonia Solution	500ml

Sr. No.	Item	Qty
1	Dissecting Microscope	2
2	Compound Microscope	2
3	Brush	12
4	Glass Slides	50(1 Pkt)
5	Cover Slips	50(1 Pkt)
6	Hand lens	4
7	Ganong's Light Screen	4
8	Dropping Bottel	4
9	Specimen	10
10	Watch Glass	10
11	Petri Dish	3
12	Tongs	4

13	Needles	24
14	Forceps	4
15	Scissors	4
16	Dropper	12
17	Wodden Slide Box	1
18	Saframine	
19	Glycerine	
20	Iodine	

Model & Charts

Sr. No.	Item	Qty
1	Plant Cell	8
2	Animal Cell	8
3	Respiratory System	8
4	Safety Rules for Science Lab	1
5	Digestion System	8
6	Circulatory System	8
7	Excretory System	8
8	Cell Divisions	8
9	Parts of Plant	8
10	Structure of Leaf	4
11	Parts of Flower	8
12	Modification of Root Stem And Leaves	8
13	Skeleton	2
Models of Human Organs		
1	Heart	1
2	Eye	1
3	Ear	1
4	Brain	1
5	Human Skeleton	1

SCIENCE AND MATHEMATICS EDUCATION RESOURCE CENTER

<u>Material</u>	<u>Name of charts</u>
<p>Abacus Geometrical Tool Box Wooden Shapes of a Square, Rectangle, Triangle, Circle, Menstruation Kit Pythagoras theorem Hollow Sphere Stencil of Geometrical Shapes Square Papers Graph Sheets Coloured Papers White Sheets of Papers Fevi Stick Fevicol Tubes Pair of Scissors Fraction disc Broom Sticks Wooden Sticks of Various Lengths 10*10 grids of numbers</p>	<ol style="list-style-type: none"> 1. Need & Importance of Mathematics Lab 2. Trigonometric table 3. Mode 4. Type of triangle –on the basis of angles 5. Right circular Cone
<p style="text-align: center;">Name of models</p>	<ol style="list-style-type: none"> 1. Measurement of angles 2. Types of triangles on the basis of sides 3. Cone 4. Types of triangle 5. Area of circle 6. Types of triangles on the basis of angles 7. Algebraic identities 8. Sum of angles of triangles is 180 9. Geo – board 10. Cube cuboids (solid form) 11. Difference between vol. of cylinder & cone 12. Congruency of triangles 13. Height and distance 14. Area of cross roads