

OFFICE OF THE PRINCIPAL COLLEGE OF TEACHER EDUCATION, BHAWANIPATNA

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PHYSICS LABORATORY

Sl. No	Name of the Equipment	
1	Concave	
2	Convex	
3	Plano Convex	
4	Plano Concave	
5	Double Concave	
6	Double Convex	
7	Prism	
8	Glass Slab	
9	Plain Mirror (with holder)	
10	Concave Mirror	
11	Convex Mirror	
12	Magnet Set(horse shoe, needle, ball mount, bar, electro, compass)	
13	Electric Circuit Model	
14	Digital Multi Meter	
15	Ameter(AC/DC)	
16	Volt Meter (AC/DC)	
17	Galvano Meter	
18	Clamp With Stand	
19	Pendulum	
20	Copper Calorimeter	
21	Connecting Wire	
22	Carbon Rod	
23	Incline Plane	
24	Magnifying Glasses	
25	Slide Callipers	
26	Screw Gauge	
27	Sphere meter	
28	Daniel Cell	
29	Leclanche Cell	
30	Hydro Meter	

31	Hangers	
32	Hangers (with S lated weight)	
33	Spring Balance	
34	Boyels Law	
35	Charles Law	
36	Weight ( Different Lbs)	
38	Solar Cell	
39	Volt meter	
40	Rio start	
<b>Chart Laminated</b>		
1	Motion	
2	Changes Around Us	
3	Metric Weights and Measures	
4	Measurements	
5	Sound	
6	Wave Motion	
7	Simple Machine	
8	The Lever	
9	Archimedes Principal	
10	Pascal's Law	
11	Reflection of Light	
12	Refraction Through a Glass Slab	
13	Refraction Through Prisms	
14	Refraction of Light Through lenses	
15	Optical Insiruments	
16	Microscope Telescope	
17	Eye and its Defects	
18	Electric Current-Sources-Effects	
19	Static Electricity	
20	Current Electricity	
21	Ohm's Law & Electrical Resistance	
22	Electric Circuit's Components Symbols	
23	Magnetism	
24	Properties of a Magnet, Making a Magnet	
25	Electromagnetism	

26	Electromagnetic Induction	
27	Electric Moto	
28	Electric Bell	
29	Electric Generator	
30	Dynamo	
31	Force	
32	Friction	
33	Gravitation	
34	Moment and Couple	
35	Work and Power	
36	Nuclear Fusion	
37	Nuclear Fission	
38	Nuclear Reactor	
39	Radioactivity	
40	Telescope	
41	Radio X-Ray	
42	Television	
43	Multistage Rocket	
44	Wind Mill	
45	Petrol Engine	
46	Steam Engine	

#### CHEMISTRY LABORATORY

01.	Beakers ( Different Size)	
2	Conical Flask( Erlenmeyer Flask)	
3	Round Bottom flask( volumetric)	
4	Dropper	
5	Tongs	
6	Test Tubes	
7	Reagent bottle	
8	Glass Funnel	
9	Glass Pipe	
10	Glass Rod	
11	Watch Glass	
12	Measuring cylinder ( different size, graduated cylinder)	
13	Spatula	

14	Forceps	
15	PH Meter	
16	Wings Scale	
17	Filter Paper	
18	Wash Bottle	
19	Crucible	
20	Mortar and pastel	
21	Peti Disc	
22	Tripod Stand	
23	Gauze mate	
24	Evaporating Disc	
25	Chemical Set	
<b>Chart plastic laminated</b>		
1.	Atom and atomics structure	
2.	Chemical reactivity of an element	
3.	Chemical areaction and its characteristics	
4.	Classification of its chemical reaction	
5.	Valencies of elements	
6.	Chemical bonds	
7.	Combustion	
8.	Separation of substance	
9.	Atmosphere and composition of air	
10.	Occurrence and forms of carbon	
11.	Carbon dioxide and carbon monoxide	
12.	Carbonate and bio carbonates	
13.	Sulphur	
14.	Mole concepts	
15.	Composition of water by weight	
16.	Different kind of cells	
17.	Electro plotting and corrosion	
18.	Cement and concrete	
19.	Manufacturing glass	
20.	Alkanes	
21.	Alkenes	
22.	Alkynes	



23.	Alcohol	
24.	Ester	
25.	Organic acid	
26.	Acids Soaps and Detergents	
27.	Plastics	
28.	Synthetic Fibres	
29.	Blast Furnace	
30.	Aluminium Metallurgy	
31.	Copper Metallurgy	
32. 32	Extraction of Zinc	
33. 33	Prep. of Sodium Hydroxide & Sodium Carbonate	
34.	Prep. of Nitrogen and Nitric acid	
35.	Prep. of Chlorine and Hydrochloric	
36.	Prep. of Sulphur Dioxide and Sulphuric acid	
37.	acid Prep. of Ammonia and Haber Process	
38.	Prep. of Oxygen and Liquefaction of Air	
39.	Prep. of H <sub>2</sub> & CO <sub>2</sub>	
40.	Manufacture of Bleaching Powder	
41.	Manufacture of Phosphorus	
42.	Crystal Lattices	
43.	Close Packed Structures	
44.	Sodium Chloride Crystal	
<b>BIOLOGY EQUIPMENT</b>		
1.	Eyes	
2.	Ear	
3.	Brain	
4.	Kidney	
5.	Lungs	
6.	Digestive System	
7.	Muscular System	
8.	Amoeba ( 3D Model)	
9.	Animal Cell ( 3D )	
10.	Anatomy Hand Parts	
11.	Anatomy Legs parts	

12.	Hearts	
13.	Circulatory System	
14.	Nervous System	
15.	Respiratory system	
16.	Skeletal System ( 3d Plastic Model)	
17.	Food chain	
18.	Food web model	
19.	Ecological Pyramid model	
20.	Teeth model	
<b>Charts Laminated</b>		
21.	Plant Kingdom	
22.	Typical Plant	
23.	Typical Plant Cell	
24.	Plant Cell Organelles	
25.	Plant Tissues	
26.	Plant Cell Mitosis	
27.	Plant Cell Meiosis	
28.	T.S. Stem - Monocot	
29.	T.S. Dicot Stem (Sunflower)	
30.	T.S. Root - Monocot	
31.	T.S. of Dicot Root	
32.	T.S. Leaf - Monocot	
33.	T.S. Leaf - Dicot	
34.	Types of Leaves	
35.	Root Systems	
36.	Structure of Flower	
37.	Calyx and Corolla	
38.	Inflorescences	
39.	Fruits	
40.	The Seed: Structure & Germination	
41.	Germination of Seed: Bean & Pea	
42.	Dispersal of Fruits & Seeds	
43.	Photosynthesis	
44.	Plant Diseases	
45.	Reproduction in Plants	

46.	Pollination	
47.	Double Fertilization	
48.	Artificial Vegetative Propagation	
49.	Stem Modifications	
50.	Root Modifications	
51.	Hydrophytes	
52.	Mesophytes	
53.	Xerophytes	
54.	Insectivorous Plants	
55.	Fungi	
56.	57. Algae	
58.	Viruses	
59.	Bacteria	
60.	Life Cycle of Fern	
61.	Life Cycle of Moss	
62.	Spirogyra	
63.	Life Cycle of Mushroom	

#### MATHEMATICS

1	Set of 12 Geometrical figure(5x10 )cms	
2	Geometrical Instrument Box(Plastic)	
3	Geo Board(Transparent Plastic)	
4	Dummy Clock	
5	Magnet Fraction Disk with Magnetic Board	
6	Roman Numerical Chart	
7	Geometrical stencils	
8	Set of 400 pearl marbles	
9	Pythagorus Theorem Derivation	
10	Mensuration Kit	
11	Mathematical symbol Chart	
12	Graph Chart laminated	
13	Shape and Figur(angles and Construction)	
14	Algebra Identities	
15	Derivation of the Value of pie	
16	Linking cubes 2 cm set of 128	

17	Drawing models wooden	
18	Sextant model	
19	Theodolite model	
20	Model standard time indicator	
21	Angle in a circle and its parts	
22	Transparent Acrylic figures: cube, cuboid, cone, cylinder and 2 hemispheres	
23	Exterior Angle of Regular Polygon	
24	Angle sum Property of Triangle	
25	Angle sum Property of Quadrilateral	
26	Ratio of Area of Similar Triangle	
27	Volume Relation between Cone and Cylinder	
28	Clinometer Compass	
29	Power of two.	
30	Tangram	
31	Algebra Identity : Squre of(a+b), (a+b+c)	
32	Integer number line bar	
33	Set square of transparent plastic 3mm thick	
34	Pentagraph	
35	Plastic protactors circular, spring divider, spring pencil compass and scale set of 8	

ARTS		
Geography		
1	Globe(physical cum Political)	
2	Constellation Globe (Unit position and Lit position)	
3	Educational Globe( 15 inch)	
MODELS		
4	Solar system model	
5	Standard Time Indicator model	
6	Solar & Lunar eclipses model	
7	Apparatus day & Night model	
8	Seasons app. Set of 4 Globes	



9	Phases of moon model	
10	Theodolite model	
11	Rocks Set of 20 model	
12	Minerals set of 30 model	
13	Rain gauge meter	
14	Aneroid Baro meter (Indian scale)	
15	Anemo meter	
<b>MAPS</b>		
16	World Political & Physical	
17	India Political & Physical	
18	Asia Political & Physical	
19	Africa Political & Physical	
20	Australia Political & Physical	
21	Europe Political & Physical	
22	North America Political & Physical	
23	South America Political & Physical	
24	Odisha Political & Physical	
<b>GEOGRAPHICAL OUTLINE MAP</b>		
25	World	
26	India	
27	Asia	
28	Africa	
29	Australia	
30	Europe	
31	North America	
32	South America	
33	Odisha	
34	Plain roll up Black Charts(100/135 cm)	
35	Graphs 5 cm square Chart(100/135 cm)	

  
 for Principal  
 22.01.25  
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