

## Standard List of Science Laboratory Equipment, Glassware & Chemicals for Middle Secondary School

### Chemicals

#### Subject: Biology

Sl. #	Items	Qty.
1	Acetic acid	500ml x 1
2	Acetone	500ml x 1
3	Ammonium hydroxide	500ml
4	Anti serum A , B & Rh (3 items)	2 sets
5	Benedict's solution	2 btls.
6	Canada balsam	100ml
7	Carbolic acid	1 litre
8	Cobalt chloride paper	6 pkts.
9	Eosin dye	200g
10	Ethyl alcohol	1 litre
11	Fehling solution:	
	– A	500ml
	– B	500ml
12	Filter paper (9.0cm)	6 pkts.
13	Formalin	500mlx10
14	Glucose	500g
15	Glycerine (500 ml)	1 no.
16	Iodine solution	500ml
17	Leishman's stain	250ml
18	Litmus paper:	
	– Blue	6 pkts.
	– Red	6 pkts.
19	Millions reagent	500ml.
20	Potassium hydroxide	500ml.
21	Potassium permanganate	500ml.
22	Safferin blue	500ml
23	Sodium bicarbonate	500g
24	Spirit	5 litre
25	Starch	500g
26	Sudan solution	500ml.
27	Vaseline	500g
28	Yeast powder	500g

#### Subject: Chemistry

Sl. #	Items	Qty.
1	Acetic acid	500ml
2	Aluminium sulphate	500g

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3	Ammonium carbonate	500g
4	Ammonium chloride	1000gm
5	Ammonium dichromate	500g
6	Ammonium hydroxide	500g
7	Ammonium sulphate	500g
8	Barium chloride	500g
9	Calcium metal granulated	500g
10	Calcium carbonate	500g
11	Calcium chloride anhydrous	500g
12	Carbon disulphide	500ml
13	Calcium nitrate	500g
14	Calcium oxide	500g
15	Calcium sulphate	500g
16	Cobalt nitrate	500g
17	Copper carbonate	500g
18	Copper chloride	500g
19	Copper nitrate	500g
20	Copper oxide	500g
21	Copper sulphate	500g
22	Copper turnings	250g
23	Ferric carbonate	500g
24	Ferric chloride	500g
25	Ferric nitrate	500g
26	Ferrous chloride	500g
27	Ferrous nitrate	500g
28	Ferrous sulphate	500g
29	Ferrous sulphide	1 kg
30	Filter paper (9.0cm)	12 pkts.
31	Glucose	500g
32	Iodine	100ml X 2
33	Hydrochloric acid (conc)	500ml x 4
34	Hydrogen peroxide (30%)	500ml X 2
35	Lead acetate	500g
36	Lead chloride	500g
38	Lead dioxide	500g
39	Lead monoxide (litharge)	500g
40	Lead nitrate	500g
41	Lead oxide (red lead)	500g
42	Lead sulphate	500g
43	Litmus paper red	10 pkts.
44	Litmus paper blue	10 pkts.
45	Magnesium metal ribbon	25g
46	Magnesium carbonate	500g

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47	Magnesium chloride	500g
48	Magnesium nitrate	500g
49	Magnesium sulphate	500g
50	Manganese chloride	500g
51	Manganese dioxide	500g
52	Manganese sulphate	500g
53	Mercury	250g
54	Mercuric chloride	500g
55	Mercuric oxide red purified	500g
56	Methyl orange	500ml
57	Methylene blue	500ml
58	Nitric acid (conc.)	500ml x 4
59	Nickle sulphate	500g
60	Phenolphthalein	500ml
61	Platinum loop/nichrome	10 pkt
62	Potash alum	500g
63	Potassium dichromate	500g
64	Potassium dichromate paper	4 pkts.
65	Potassium chloride	500g
66	Potassium ferricyanide	500g
67	Potassium ferrocyanide	500g
68	Potassium hydroxide	500g
69	Potassium iodide	500g
70	Potassium iodide paper	4 pkts.
71	Potassium nitrate	500g
72	Potassium sulphate	500g
73	Potassium permanganate	500g
74	Sodium acetate	500g
75	Sodium bicarbonate	500g
76	Sodium carbonate	500g
77	Sodium chloride/common salt	500g
78	Sodium hydroxide pellets	500g
79	Sodium nitrate	500g
80	Sodium sulphate	500g
81	Sodium thiosulphate	500ml
82	Spirit LP	10 litres
83	Starch	500g
84	Sulphuric acid	500ml x 4
85	Universal indicator	500ml
86	Zinc carbonate	500g
87	Zinc chloride	500g
88	Zinc granules	500g
89	Zinc nitrate	500g

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90	Zinc sulphate	500g
91	Zinc sulphide	500g
92	Zinc sulphite	500g
93	Xylene	500ml

### Subject: Physics

Sl. #	Items	Qty.
1	Iron filings	500gm
2	Mercury	500gm
3	Spirit (in PP jerkin)*	5 litres
4	Sulphuric acid (dil.)	500ml x 2

\* If no gas connection, 10 litres; otherwise, 5 litres.