
List of Apparatus and Materials for Experiments

Described in the Laboratory
Manual of Psychology, Vol. 1

—By—

Prof. Edward Bradford Titchener
Cornell University

MANUFACTURED BY

*The Chicago Laboratory Supply and
Scale Company,*

Manufacturers of Scientific Apparatus. 39 W. Randolph Street
CHICAGO, ILLS.

S E P T E M B E R 1 9 0 2

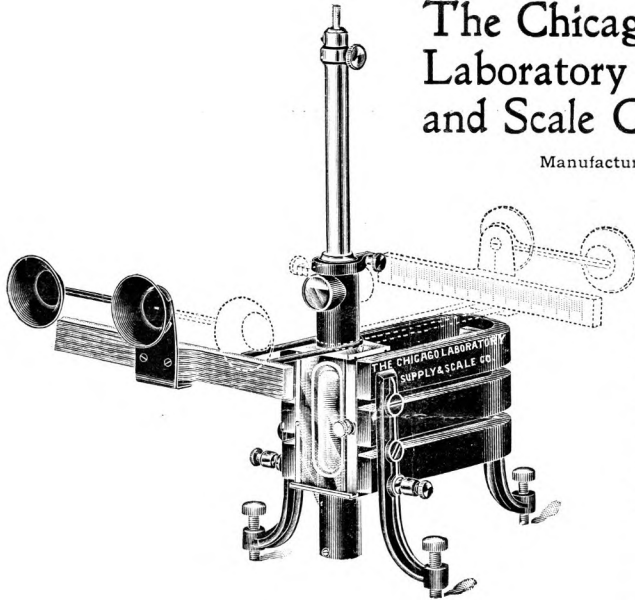
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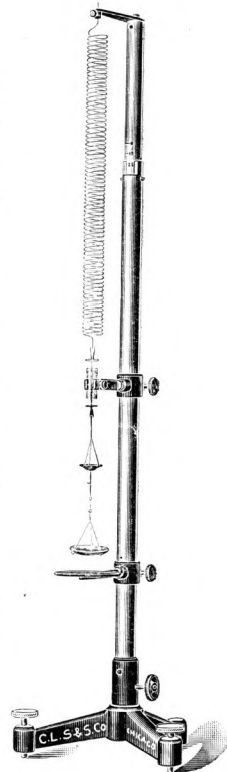
HIGH
SCHOOLS,
COLLEGES,
and
UNIVER-
SITIES



No. 4060—Improved D'Arsonval Galvanometer.

Phosphor-Bronze Suspension, Resistance of Coil, 240 Ohms, Sensitive to 75 Megohms. The new Sight and Scale Attachment secures rigidity, compactness, rapid and accurate readings. Used in many of the leading institutions. A further detailed description on application.

No. 4048—Improved Jolly Balance. Does away with mirror and continuous vibration of spring. The adjustment is obtained by means of a micrometer screw and as the spring has a play of only 12 mm., rapid readings are insured. The inner tube is graduated for 500 mm. of its length and is provided with a vernier reading to $\frac{1}{10}$; thus securing results that are more correct than are possible with other forms of this apparatus. With a few inexpensive attachments many experiments in the Properties of Matter, Heat, Electricity and Magnetism, may be performed in addition to these usually accredited to the Jolly Balance. Send for a complete description of the Balance and Experiments.



After more than two years of preparation, we are pleased to offer herein a complete list of apparatus and materials needed for carrying on the experiments as given in the Laboratory Manual of Professor Edward Bradford Titchener, of Cornell University. This apparatus has been prepared under the direction of Prof. Titchener, and we take this opportunity to thank him for his kind and patient assistance in the work. The apparatus is as simple in design as is possible to meet the requirements, and as cheap in construction as is compatible with durability.

Knowing that a large portion of our patrons are familiar with the apparatus, we refrain from giving a detailed description of each piece. Further, as from time to time improvements are recommended and adopted, changes will be made in design and construction of some of the pieces: therefore the price now placed on the apparatus may be changed to meet the new conditions. No change will, however, be made in construction or price without the approval of Prof. Titchener.

Thanking our patrons for past favors, and soliciting a continuance of good-will, we remain,

Yours truly,

THE CHICAGO LABORATORY SUPPLY & SCALE CO.

C. H. STOELTING, President.

C. B. WILLIAMS, Secretary.

SPECIAL APPARATUS.

PAGE.	EXP.	CAT. NO.	DESCRIPTION.	PRICE.
186,191	34,35	7300*	Aesthesiometer, Simple	\$ 1.00
		7302—	Aesthesiometer, with graduated arc in units of 2mm.....	2.00
27	Fig. 5	7434	Negative After Image Apparatus....	35.00
88	20	7082	Arm Rest	4.50
88	20	7436	Atomizer, with ¼ lb. Ether.....	.80
95	22	7389	Automatograph	2.50
115	25	7328	Bell Metronome	4.50
65	14	1208	Reading Glass, 4 in.....	1.75
9	2	7396	Campimeter, with eye rest, complete.	5.00
		304	Color Mixer	6.00
5	1	7398	Color Mixer, boxed	5.00
88	20	7438	Electrodes, pair, with cords.....	3.00
			Eye Rest (see Campimeter)	
100	23	7317	Finger Dynamometer	8.00
25	4	7413	After Image Frame (complete with Cards and Color Disks).....	4.00
172	30	7440	Harmonicas, as specified, Set of 5, C, D, E, F, A. 10 holes, each, 25c....	1.25
43,45	7	7442	Harmonium, portable	25.00
73,111	17,25	7406	Head Rest, with Table Clamp.....	2.00
75	27	7444	Hypodermic Syringe, in case, grad..	1.50
88	10	7090	Induction Coil	17.50
88,179	20,32	7020	Key, electric, single platinum con- tacts	1.25
202	37		Memory Apparatus	8.00
175,176		7390	Metronome, without bell	3.25
178	31	262	Olfactometer, improved form of Aluminum	3.50
79	19	7340	Olfactometer, Single	3.00
		7340A	Olfactometer Tubes, extra, gradu- ated, each .....	.50
		7341	Olfactometer, Cylinders for 7340 Ol- factometer—	
		A	Cedarwood .....	.75
		B	Gum Benzoin	2.00
		C	Paraffine .....	.75
		D	Beeswax .....	.75
		E	Tolu Balsam .....	.50
		F	Asafoetida	2.25
		G	Russia Leather .....	.75
		H	Rosewood	1.00
		I	India Rubber, black .....	.50
		K	India Rubber, red .....	.50
135	Fig. 32	7365	Ophthalmotrope	20.00
60	13	7402	Pain Points, two hardwood rods, with bristles	1.00
47	8	7381	Piston Whistle	10.00
103	24	7107	Plethysmograph, Francke's	9.00
59	12	7400	Pressure Points, handle and two points	1.00
146	28	7374	Pseudoscope	12.00
		7375	Pseudoscope, Wood's Lenticular	12.00
40,44,47	7,8	1057	Quincke's Tubes, set of 13 labeled..	2.10
103,111	24,25		RECORDING APPARATUS:	
		7000	Kymograph	35.00
		7052	Tambour, Marey's, two @ \$6.50....	13.00
		7076	Time Marker, Pfeil's	7.50

PAGE.	EXP.	CAT. NO.	DESCRIPTION.	PRICE.
113,205	{ 25(No. 4) 37(No. 9)	{ 7446* 1027	{ Rotation Apparatus , complete, with support	{ \$10.35 4.50
50	9	1027	Sonometer	4.50
179	32	7394	Sound Cage , improved form.....	35.00
137	27	7370	Stereoscope	1.35
36,77,78				
205	5,18,38	7350	Stop Watch	6.50
		7351*	Stop Watch , Jacquet's make (recom- mended)	15.00
179	32	1893B	Telephone Receiver , watch case form	.80
54	10	7314	Temperature Cylinder , holder with extra cylinder	1.50
35,36,38	5,6	966	Tuning Forks (two) C, 20c.....	.40
		966	Tuning Forks (two) A, 20c.....	.40
118	6	7342	Chronoscope , Vernier, Sanford's (first model)	5.00
		7343*	Chronoscope , Vernier, Sanford's (sec- ond model)	10.00
		7343½	Chronoscope , Vernier, Sanford's (third model)	20.00
		7372	Book Spectroscope	1.50

GENERAL APPLIANCES AND MATERIALS.

147,148	28	7448	Balls , two, wooden, colored, 1", one each R & G.....	\$ 0.10
88,179	20,32	1780	Batteries , Le Clanché .....	.65
84	19	2095	Beakers , 3 oz.....	.10
84	19	2095	Beakers , 5 oz.....	.12
53	Chapt. 3	7450	Bowls , two, shallow, 35c.....	.70
50,54,59	19,33	1280	Brushes , 12, C. H., 3 each, 4, 5, 6, 7..	.54
73,84,184				
65,67,68	14,15,17	7452	Bucket , 10 qt. galvanized iron.....	.35
71,100				
65,67,68	14,15,17	728	Bunsen Burner .....	.30
54		10	7454	Bust , Plaster, 4" to 6" head.....	.75
148	28	7456	Caraffe , with glass.....	.50
65,67,68	14,15	2258	Clamp , for 2 cylinders, N. P.....	1.30
100					16,23	2259	Clamp Holders, two, N. P.....	2.40
79	19	7458	Corks , two, weighted differently, No. 12 .....	.25
64,68,71	14,16	7460	Cotton Wool , absorbent, ¼ lb.....	.20
72,77,78				
182	18,32	7462	Dishes , small tin, 12, 5c.....	.60
95	22	7464	Pans , earthenware, large, 4" long by 12" wide .....	.35
54,73	10,17	7466	Pans , earthenware, small, 1" long by 8" wide .....	.20
54,73	10,17	7468	Eye Shade .....	.25
10	2	7470	Felt , for deadening sound of Metro- nome, 8x8x½ .....	.25
175,176	31	7472	Felt Hammer .....	.30
35,36,38	5,6	96	Flat Ruler , Metric and English, 30 cm long .....	.10
140	27	4826	Glasses , drinking, tumbler.....	.05
65,67,68	14,15,16	7474	Glass , piece, 6x6", Y. G. R. B.....	.50
100		23	2278	Y Tube , glass, ¼".....	.15
22	4			
172	30			

PAGE.	EXP.	CAT. NO.	DESCRIPTION.	PRICE.
148	28	7476	Half Hoops of wood.....	\$0.25
100	23	7478	Hard Rubber Syringes, hard rubber pipe .....	.30
148	28	7480	Match Boxes, paper safety.....	.05
150	28	7482	Masks, two, strong colors, 20c.....	.40
148	28	7484	Medallions, plaster .....	.50
176	31	7414..	Metronome Box	7.50
75,88	17,20	7486	Needles, 6 darning, and spool of thread, heavy linen, black, and spool of silk .....	.25
67	15	2100	Phials, narrow mouth, G. S. 2 oz., set of 10 .....	.70
72,77,84	16,18,19	2101A	Phials, stoppered, sample, with corks, 4 drams, 72, 2c.....	1.44
72,77,84	16,18,19	2102	Phials, wide mouth, G. S. 2 oz., 10, 9c .....	.90
115,23,25	3,4,25			
111		7488	Pins, book of 234, assorted.....	.15
140	27	7490	Pins, 4 black headed hat pins, short.....	.10
68,84	16,19	2224	Pipettes, 20 cc grad. in 1-10 cc.....	.60
61	13	1365	Razor, section cutting	1.00
35,36	5	2192b	Resonance Jars, two, 15x2½", 50c... ..	1.00
179	32	7492	Rod, 50 cm long, of light wood.....	.15
111	25	7494	Rubber Bulb, for tubing, attached..	.50
35,54,172	5,10,30	2274	Rubber Tubing, for Bunsen burner, 12 ft., 8c.....	.96
15,23,59	3,4	2276	Rubber Tubing, for tambours, etc., 12 ft., 10c.....	1.20
138,148,150	11	7496	Shear, 8" blade, 1 pr.....	1.50
	17,28	7498	Scissors, short .....	.35
205	37	7500	Speaking Tubes, tin, per foot, about.....	.04
		7502	Speaking Tubes, elbows, each.....	.05
73	17	70	Spirit Level, will fit on square.....	.30
73	17	7504	Sponge, fine, 1.....	.50
61	13	7506	Sponge, fine, on wood handle.....	.20
73,96,113	17,22,25	2246	Support, Universal movement.....	1.25
		2343	Support, No. 3, 6 @ 50c.....	3.00
148	28	7508	Tea Cup, painted on outside.....	.35
148	28	7510	Tea Cup, painted on inside.....	.35
71	Chapt. 5	7512	Teaspoons, heavy tin, 6.....	.25
57	11	844½	Thermometer, grad. to 100° C.....	.70
		852	Thermometer, grad. in 1-10 to 50° C.....	2.85
75	17	7514	Tin, one piece, perforated, heavy, 14x14 cm, openings 1 mm in diameter and 1 mm apart.....	.50
73	17	7516	Tin, one piece, XX sheet, heavy, 14 cm by 14 cm.....	.10
57	11	2261	Tripod, for use with Bunsen burner..	.30
113	25	7518	Tube, black .....	.20
57	11	7520	Vessels, for heating water.....	.65
88	20	7522	Weights	1.50
100	35	7524	Whalebones, stay bones, two.....	.10
148,138	27,28	7526	Wire, brass, stiff, 1-32" thick, 2 ft... ..	.15
150	28	7528	Wire, 1 meter each, white and gray, No. 18 .....	.15
88	24	7530	Wire, connecting, No. 18 ins., 10 ft..	.10
57	11	7532	Wire, gauze, brass .....	.15
148	28	7534	Wire Models, cube and pyramid, 25c..	.50

PAPER, CLOTH, DRAWING MATERIALS, ETC.

PAGE.	EXP.	CAT. NO.	DESCRIPTION.	PRICE.
54,190	10,35	7536	Aniline Dyes , set of 5 different colors, red, green, blue, violet, brown....	\$ 0.50
59,61	12,13			
54,59	10,12			
75,190	17,35	7538	Architect's Paper , 1 yd.....	.30
23	4	7540	Black Cloth , 1 yd. dead finish black..	.30
23,22,15	4,3	7542	Black Velvet .....	.75
113,205	25,37	7544	Card, Accommodation , with six object cards and sector disc.....	3.00
23,93,150	4,1,28	7546	Cardboard , 1, black, 56x70 cm, heavy.	.10
149	28	7548	Cardboard , 4 figured squares.....	.50
15,23,25	3,4,21			
30,93,138	27,28			
140,142		7550	Cardboard , white, med., 28x35 cm, 8 sheets .....	.10
148,150				
179	32	7552	Cardboard , semicircles, 2.....	.75
113,205	25,27	7554	Cardboard , object card, 1.....	.15
202,204	37	7556	Cards , stimulus, blank.....	} .10
202,204	37	7558	Cards , test, blank.....	
73,184	17,33			
186,190	34,35	7560	Chalk , 2 .....	.05
23,150,184	4,28,32	2520	Compass .....	.15
61	13	7564	Cloth , for drying skin, tumbler cloth, 1 yd. ....	.35
5	1	7424	Color Discs , after Hering (Imported), 11 cm diam. set of 14, with black and white discs .....	.50
		7425	Color Discs , set of 14, after Hering (Imported), 20 cm, with black and white discs	1.35
		358	Color Disc , with graduated circle....	3.00
147	28	7566	Fixation Cross of white card.....	.05
10	2	7568	Fixation Point , on gray card, with Campimeter .....	.05
111	25	7569	Disc , Masson's.	
54,57	10,11			
61,190	13,35	7570	Indelible Ink , Payson's, 1 bottle....	.25
184	33	7572	India Ink , Higgin's Waterproof.....	.25
10,59,186	2,12,34	89	Millimeter Paper Scale , one meter long, on heavy paper, each.....	.15
54,184,190	10,33,35			
150	28	7574	Paints , oils, any color, red, black, white, yellow, green and blue, per tube .....	.10
16,15	3	7576	Paper , 1 sheet black, 100x70.....	.04
16,22,28	3,4,28			
148,150,162	29	7578	Paper , 1 sheet, white, 110x70.....	.05
15	3	7580	Paper , 2 sheets, white tissue.....	.05
15,22,25	3,4	7828	Paper , colored, one sheet each stand- ard colors, 2 tints, 2 shades and book samples, 90 sheets in all, 4c..	3.60
30,93,42	21,27			
15,22,25	3,4,21	7429	Paper , gray, 4 sheets, 2 shades, 8 sheets in all, 4c.....	.32
93,142	27	2582	Paper , quadrille ruled, 10 sheets 15 mm wide by 20 long.....	.15
61,93	13,21	7584	Paper , cross ruled, millimeter, 5 sheets, 20 mm wide by 25 long....	.25
148,150	28	7586	Paste , 4 oz., Library, cap and brush.	.25

PAGE.	EXP.	CAT. NO.	DESCRIPTION	PRICE.
138,147,150	27,28	7588	Pencils, 6, different outside colors, 3c	\$0.18
184,190	33,35			
5,10,16	1,2,3	7590	Protractors, 12, for discs.....	.25
110	25	7373	Puzzle Pictures, 12, 10c.....	1.20
147	28	7592	Screen, dead black, 1 meter square..	4.50
5	1	7593	Screen, neutral gray, 25x30 cm.....	.25
5	Chapt. 1	7427	Spectrum Chart, Prang, framed in black, frame close to color band..	3.00
140	27	7371	Stereoscopic Slides, Martius-Matzdorff, to show lustre of crystals, set of 12	1.50
		7371A*	Stereoscopic Slides, larger, set of 36, with explanatory text	3.00
		*	Stereoscopic Slides, single ones of either of the above, each.....	.25
23	4	2549	Thumb Tacks, 12.....	.15
59,61	12,13	1220	Tripod Magnifier .....	.45

SMELL AND TASTE SOLUTIONS, ETC.

36,40,38				
182	32,5	7594	Beeswax, refined, $\frac{1}{8}$ lb.....	\$ 0.25
72	Chapt. 5	7596	Chocolate, 1 cake, unsweetened....	.15
75	17	7598	Oil of Cloves, 1 oz. in bottle.....	.20
73	17	7600	Paraffine, 1 lb, hard.....	.20
78	18	7602	Spirits of Camphor, 2 oz. and bottle..	.25
78	18	7604	Tincture of Iodine, 2 oz. and bottle..	.50
72	Chapt. 5	7606	Tincture of Peppermint, $\frac{1}{2}$ oz. and bottle .....	.10
103	24	7608	Vaseline, white, 2 oz. and bottle....	.25

Unspecified Taste Solutions in Glass Stopped Bottles Covered with Paper.

Page 105, Instructor's Manual.

Many of the following will not keep for any great length of time and are made fresh after receiving the order.

4 oz.	Syrup of Orange, 15 %, and G. S. B.....	\$0.25
4 oz.	Lime Juice, 10%, and G. S. B.....	.25
4 oz.	Tar Water (made from 5% wine of tar), and G. S. B..	.20
4 oz.	Syrup of Sarsaparilla, 15%, and G. S. B.....	.25
4 oz.	Solution of Powd. Alum, 2%, and G. S. B.....	.25
4 oz.	Essence of Wintergreen, 5%, and G. S. B.....	.50
4 oz.	Lemon Syrup, 15%, and G. S. B.....	.25
4 oz.	Cherry Syrup, 15%, and G. S. B.....	.30
4 oz.	Essence of Sassafras, 5 %, and G. S. B.....	.30
4 oz.	Alcohol (95%), 33%, and G. S. B.....	.25
4 oz.	Peach "fruit flavor," 5%, and G. S. B.....	.30
4 oz.	Essence of Bitter Almonds, 2%, and G. S. B.....	.30
4 oz.	Essence of Anise, 5%, and G. S. B.....	.40
4 oz.	Solution of Epsom Salts, 2%, and G. S. B.....	.25
4 oz.	Pineapple Syrup, 15%, and G. S. B.....	.35
4 oz.	Essence of Peppermint, 2%, and G. S. B.....	.30

Exp. 23, Page 163, Instructor's Manual.

4 oz.	Castor Oil, pure, and G. S. B.....	\$0.20
4 oz.	Cod Liver Oil, and G. S. B.....	.20
4 oz.	Quinine, hydrochlorate, 1%, and bottle.....	.30
4 oz.	Syrup of Orange .....	.30

Unspecified Smell Stimuli, P. 121.

1 oz.	Crabapple Blossoms, and bottle.....	\$1.00
1 oz.	White Rose Blossoms, and bottle.....	.75
½ oz.	Heliotrope, and bottle .....	.25
4 oz.	Ammonium Sulphide, and G. S. B.....	.35
4 oz.	Carbon Bisulphide, and bottle .....	.25
1 oz.	Asafoetida, W. M. G. S.....	.15
1 oz.	Stale Cheese, W. M. G. S.....	.15
2 oz.	Tr. of Iodine, and G. S. B.....	.30
4 oz.	Spirits of Camphor, and G. S. B.....	.25

Experiment 2, P. 122.

1 oz.	Nitro-benzol, and G. S. B.....	\$0.20
1 oz.	Benzoil Chloride, and G. S. B.....	.35
¼ oz.	Propionic Acid .....	.40
1 oz.	Heliotropine, and bottle .....	.35
1 oz.	Oil of Camphor, and bottle.....	.20
½ oz.	Oil of Mace, solid and W. M., G. S. B.....	.25
1 oz.	Mutton Tallow, and G. S. B.....	.20
¼ oz.	Cumarine, Aqueous Solution, and G. S. B.....	.30
¼ oz.	Vaniline, Aqueous Solution, and G. S. B.....	.45
⅛ oz.	Naphthaline, W. M., G. S. B.....	.15

Selected Olfactory Stimuli, P. 127.

I	a	1 oz.	Confectioner's Pineapple Oil, and bottle.....	\$0.35
	b	4 oz.	Beeswax, Purest, W. M., G. B.....	.30
	c	4 oz.	Sulphuric Ether, and can.....	.30
II	a	½ oz.	E. O. Rosemary, and G. S. B.....	.20
	b	1 oz.	E. O. Cloves, and G. S. B.....	.25
		½ oz.	E. O. Cinnamon, and G. S. B.....	.15
		½ oz.	E. O. Anise, and G. S. B.....	.25
		½ oz.	E. O. Peppermint, and G. S. B.....	.25
		1 oz.	E. O. Thyme, and bottle.....	.20
		¼ oz.	E. O. Geranium, and G. S. B.....	.25
		1 oz.	E. O. Bergamot, and G. S. B.....	.35
		¼ oz.	E. O. Bitter Almond, and G. S. B.....	.25
III		½ oz.	Ylang Ylang .....	.30
		½ oz.	Orange Blossoms .....	.30
		1	Bot. Violet, R. & G.....	1.50
		1 oz.	Benzoin, common, liquid, and G. S. B.....	.25
IV		1 oz.	Oil of Amber, and G. S. B.....	.20
		⅛ oz.	Musk (Tr. of natural animal or root), and bottle.....	.50
V		4 oz.	Carbon Bisulphide, and G. S. B.....	.25
		1 oz.	Tr. of Bromine, and G. S. B.....	.20
VI		1 oz.	Creosote, and bottle .....	.20
		1 oz.	Benzine, and bottle .....	.15
VII		1 oz.	Laudanum, and bottle .....	.20
VIII			Caproic Acid, 15 grains .....	.35
		1 oz.	Olive Oil, with bedbugs, and G. S. B.....	.25

7430 Paper, Gray, the Original Hering.

We have just completed arrangements for supplying the gray papers as approved by Prof. Hering. These papers consist of a series of 50 evenly graded shades of uniform intensity and quality.

If only a limited number of shades is desired, we would suggest that Nos. 2, 7, 15, 24 form a most useful combination; while for background work in contrast color experiments Nos. 6 to 25 include all which will be found necessary.

For all research work and in the larger laboratories the entire set should be used.

These Papers come in original rolls, 50 rolls to the set.

Price, per roll	\$ 0.75
Price, per set of 50 rolls.....	25.00
Price, per meter, any shade.....	.15

No. 1 is the lightest and 50 the darkest shade supplied.

The following sets of apparatus have been designated by Prof. Titchener as essential to a new laboratory. Sets "A" and "B" will cover the experiments indicated in the margin below, while the "required" materials may be obtained by the Instructor. In many instances the arrangement and preparation of these call for considerable preliminary work, which, of course, would be obviated by the purchase of the materials already prepared.

SPECIAL SETS.

Set A.

Exps. I, IV.

7398	Color Mixer	\$ 5.00
7424	Discs, two sets	1.00
7590	Protractors .....	.25
7428	Colored papers	3.60
7396	Campimeter and eye rest.....	5.00
7468	Eye shade .....	.25
	Velvet .....	.75
7576	Black paper .....	.04
7550	Card, 8 sheets, white .....	.10
2520	Compasses .....	.15

Exps. V, VII, IX.

966	Four forks .....	.80
7472	Felt Hammer .....	.30
7350	Stop-watch	6.50
	Wax, 1 oz.....	.05

Exps. X, XII, XIII.

7314	Temperature cylinders	1.50
7400	Pressure points	1.00
7402	Pain points	1.00
7538	Architects' paper .....	.30
7536	Dyes .....	.50
7570	Indel. ink .....	.25
89	Mm. scale .....	.15
1280	Brushes .....	.54

Exps. XIV, XV.

4 oz.	Quinine .....	.30
1208	Reading glass	1.75

Exps. XXI, XXIII.

7582	Cross-ruled paper .....	.15
	[If 7317 and 7478 are omitted, insert 7389, automato- graph (Exp. XXII), \$2.50.]	

Exp. XXV.

7373	Puzzle pictures, three .....	.30
	(For p. 111, use stop watch from Exp. V. and white disc of card from Exp. III.)	

Exp. XXVI.

7342	Vernier chronoscope	5.00
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Exps. XXVII, XXIX.

7370	Stereoscope	\$1.35
	(Make slides from card of Exp. III.)	

Exps. XXX, XXXI.

7440	Harmonicas	1.25
2278	Glass Y-tube .....	.15
	Rubber tubing, 5 ft.....	.50
262	Metronome	3.25
	[For Exp. XXXII, without apparatus, see Instructor's Manual, p. 359.]	

Exps. XXXIII-XXXV.

7300	Aesthesiometer	1.00
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Exps. XXXVI-XXXVII.

7390	Memory apparatus	8.00
7556	} Blank cards10
7558		
	Set A will be furnished f. o. b. Chicago for \$54.75.	

SET B.

This set includes all articles listed under "A" and the following additional items:

7413	After-image frame, etc.....	\$4.00
1057	Quincke Tubes	2.10
1027	Sonometer	4.50
1220	Tripod Magnifier	1.00
	Ten selected tastes	3.00
7317	Finger dynamometer	8.00
7478	Hard-rubber syringes, three .....	.90

Set B will be furnished f. o. b. Chicago for \$76.50.

SET C.

This set includes all articles listed under "A" and "B" with the following additional articles:

7000	Kymograph	\$35.00
7052	Tambour, Marey's, two	13.00
7070	Time Marker, electric.....	A Complete Set, 7.50

Set C will be furnished f. o. b. Chicago for \$132.85.

The apparatus necessary for performing all of the experiments in Titchener's Student's Manual will be found on pages 3 to 8 inclusive, of this circular, and will cost f. o. b. Chicago \$460.00, excepting the items marked with an asterisk.