

Sept 29 12:30-1:45 Miss Peterson and Mr. Pritchard at studio. Discuss 4-9 grades -  
 1904 5th grade is "marking time" only "no progress" M.T.P.  
 "Your tendency is deductive, not inductive!" "  
 "Couldn't you have weak chroma one year)  
 strong " next " ) ? J.C.P.  
 "Value of this lies in its application -design. M.T.P.  
 "Can these scales be made in water color in 8th grade?" J. C. P.  
 Discuss masks to select colors in 8th grade.

Oct 1 Mr. Pritchard and Miss Peterson at studio. 9.  
 "Is solar spectrum a standard - is your circle of hues like it? Why not? How do you get that red?  
 "Is it measured - By whom, by what? Can it change - will it fade? "Can children find any color in your sphere?" "Do you go from particulars to universals- do you use synthesis or analysis? -(in teaching color)  
 "Work out a few harmonious groups under rules and show them. "Make a selection for each grade.

They accept the course of study and Mr. P. asks Miss P. when she can have Mr. Hopkins approve of it?

Oct 5 Mr. Pritchard at studio.  
 Reviews question of placing photometer on a paying basis. How many have been made, at what cost- )  
 " " " " sold- for how much ) is there any disappointment as to their work?  
 How cheaply can they be gotten up - A circular to be sent out - and followed by another as to its use, and merits -(for color, C. P. S. - and general laboratory.)

-----  
 In evening at Miss Peterson's - Go over MSS of course of color study. Suggests use of Dr. Ross' Rythm and Balance. My objections to Rythm and also to Harmony. Why not yellow at top - and go against clock hands? (yellow not a primary sensation)

0 I claim a decimal scale - of  
 - 0 - middle of 3 Values which only 9 steps are  
 0 - " " 5 " available -(1-9) as black  
 0 - " " 7 " is invisible and absolute  
 0 - " " 9 " white unattainable -  
 0 "The spaces of a ladder, not  
 0 its rungs.  
 0 MSS should make more of a point of its  
 0 measured scales: 9th grade too heavy.

Oct 10 Mr. Carrier (painter) at studio. Sees sphere, 10.  
 color tree, photometer, V. scales, etc. - tells his plan for teaching the verb in languages -  
 "We can only approximate nature in any field-  
 "She always eludes us. Is always an exception

3 steps (first-a positive and striking statement -  
 in each ( new if possible  
 definition(next-an amplification satisfactory to the  
 ( scientist  
 (last-a popular illustration - using familiar  
 terms

7a.

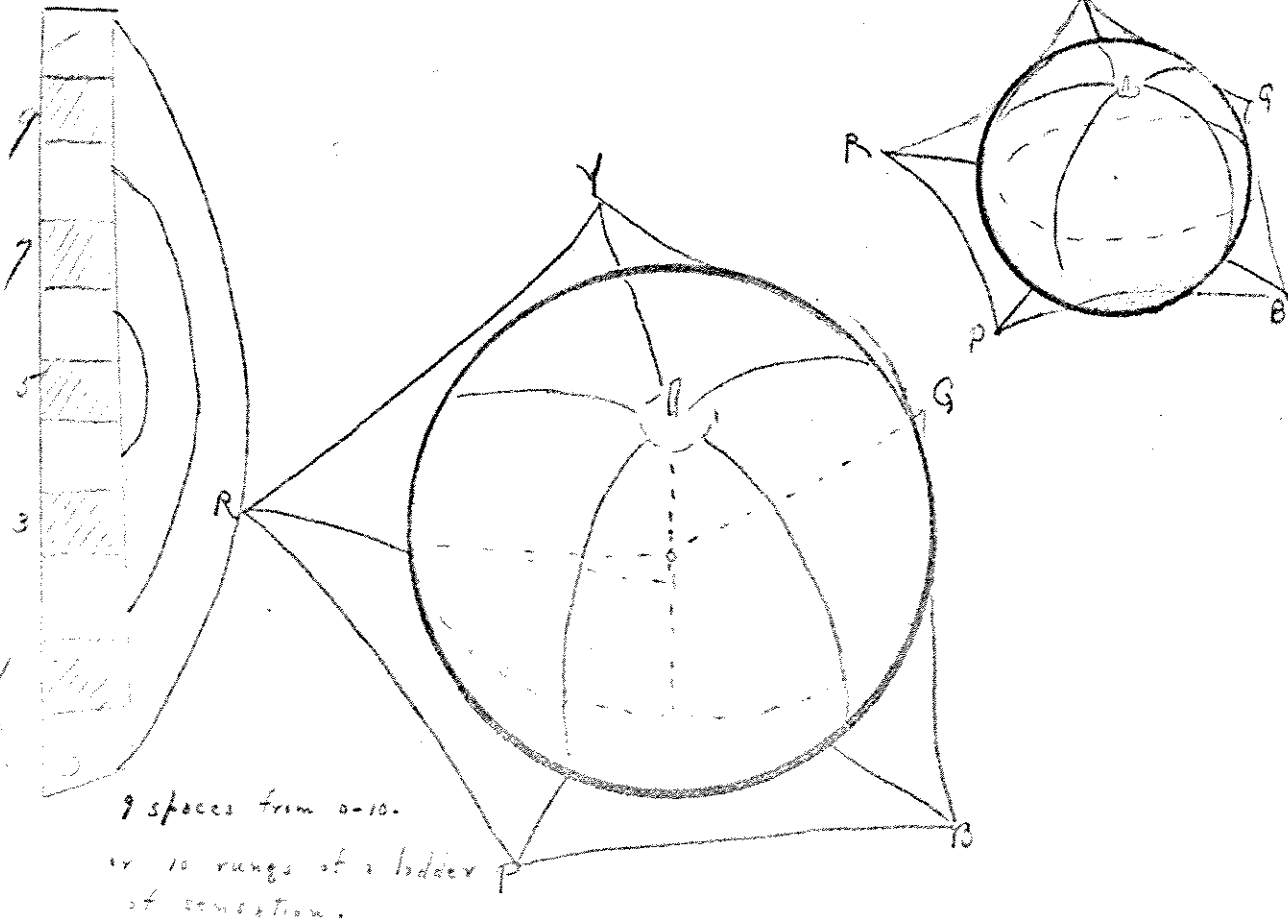
1 What this system will do for the child  
 that others can not do.  
 Describes a color - (locates)  
 Relate the color to others  
 Writes by a notation  
 Names harmonize and find them.

Page 5"x4" - 60 pp. linotype 8 point type

cover { paper  
 pens  
 comp.  
 binding

28 lines 252 words )  
 12,000 ) 50 pp.

primary 221 ) 300 schools in Boston )  
 grammar 65 ) 200 extra copies ) 500 copies.



Absolute?

Is the spectrum ab.?

How far will pigment color change?

3 months?

printing must be supervised, (Mumford at Detroit Photo-Chrome Co.)

Will artists accept this new system?

Hambridge list in Esoterics.

What does it displace?

Who will use it?

Stores

Dyers and Chemists

Architects and Decorators

Paint grinders

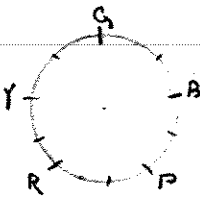
Modistes

Printed and Woven Goods

Will two people agree as to harmonious colors?

9a.

M. T. P's questions.



step  
1

step  
2

step  
3

step  
4

GY  
Y  
YR  
R

8  
RP<sup>3</sup>  
G<sup>2</sup>

6  
RP<sup>5</sup>  
G<sup>5</sup>

4  
RP<sup>2</sup>  
G<sup>3</sup>

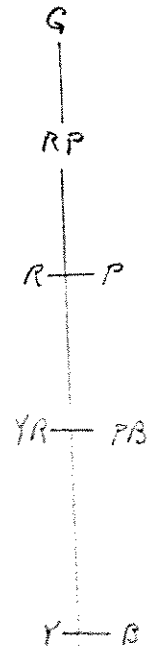
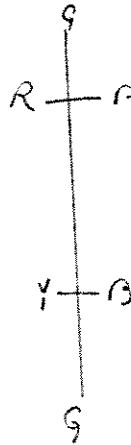
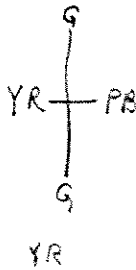
2  
RP<sup>1</sup>  
G<sup>1</sup>

BG  
B  
PB  
P

BG  
B  
PB  
P

BG  
B  
PB  
P

BG  
B  
PB  
P



5 circuit

5 circuit

10 circuit



5 equal - too purple



ex. as { Yellow  
Green } Gray - 46  
" { Blue  
Purple  
Red } { Y - 50  
G - 50  
B  
P  
R - 90

	H	V	C	Area	
Blue		44	55	1	= 55
Purple		46	55	1	= 55
Red		46	90	1	= 90
Yellow		53	50	3	= 150
Green		44	50	3	= 150
		<u>5) 227</u>	<u>5) 300</u>		<u>5) 500</u>
		45.4	60		100

average value      average chromes

$$20\% \text{ area} \times 50^2 = 1000$$

$$33 \quad " \quad \times 50^2 = 1650 \quad (\times) \quad 2300$$

$$11 \quad " \quad \times 90 = 990$$

$$11 \quad " \quad \times 55 = 605$$

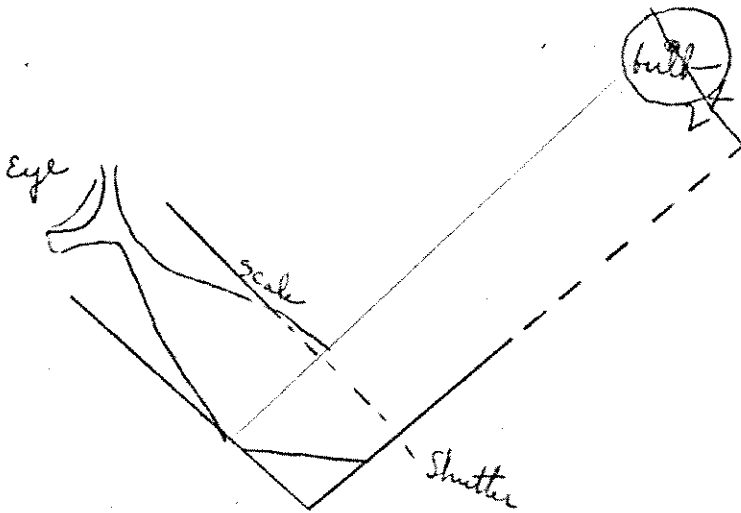
$$11 \quad " \quad \times 55 = 605$$

$$\frac{1650}{5) 5500}$$

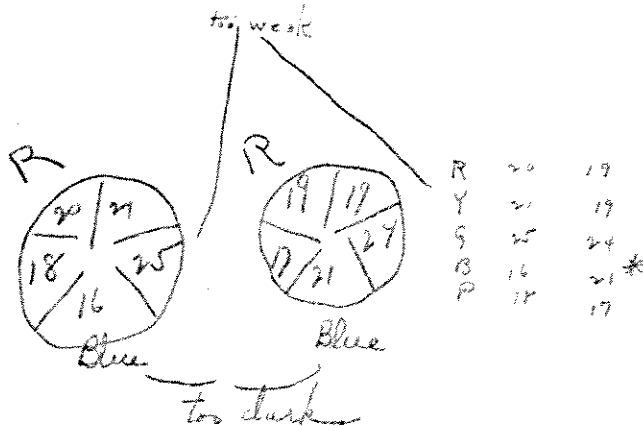
$$\frac{1100}{1000} = 1/1000$$

10w

Mr. Cron of O'Hara Dist Co.  
takes five colors to match in  
enamel - to be furnished as  
samples without cost in 2 week  
size 2"x3" about  
cost under .15 by hundred  
Waltham-Massa. Out. 11.



14w



Is the mercator proj. needed?  
"Seems too difficult for grade  
teachers."

to the law.

"What satisfies one eye, or one person, will not satisfy the next.

- Oct 11 3-6 Mr. Hopkins and Miss Peterson.  
Sees and hears 1st and 3rs chapters and Course of Lessons.  
"Need no explain to grade teacher. Assert like a god.  
Discuss materials and publishing.  
"A ten years business" - \$100,000 capital -  
"Billy Cochran can prevent and turn down anything-  
"Affiliation with other houses -  
"May have been consulted by Scribner.  
"Can't prevent your doing a good mail business.  
"Already looked up his capital for 5 years.  
"Must make it pay return.  
"Rand McNally might undertake whole thing.

(Ried (Dixon) - Rogers (Hammett) - Davis Pub. Co.,  
Milton Bradley - Prang Ed. Co. - Wadsworth H. -  
Rand McNally)

- Oct 12 At Everett School - Discuss papers and enamels with Mr. Pritchard -  
5 - Call on J. F. H. at Latin School and ask him not to mention the color problem to Mr. Cochran for the present.

- Oct 13 Mr. Pritchard at studio - Considers the photometer- Name, use, value, need, description -  
Get exercises from Dr. Wendell's class -  
"We are sending you under a separate cover, inviting your attention to ----- and beg to say that they are now in use in -----giving great satisfaction ----a few for sale, correspondence solicited. Invites your attention, and asking you to take one on (approval)

Show sketch to Prof. Clifford on train.

- Oct. 17 At studio 12-1:30 Miss Peterson and Mr. Pritchard. 11.  
Discuss Rythm and Balance -  
"Measured character of the system seems to be emphasized at start. This is where it differs from all others.  
"Centre of balance must be defined. State where it is found.  
"Sequence divided into Regular and Irregular.  
"Area - as an element of balance must be included- Which grade?

My objection to Rythm.

Miss P's objections to opposites and neighbors.

How far this should follow Mr. Ross' term.

{ " " " " fit Boston conditions especially.

How far the desires of the author should be urged against those of the Boston supervisor.

Oct 18 3:30-5:30 Mr. Hopkins and Miss Peterson at studio- Grades 1-6.

24 10:30 Mr. Cochran, Mr. and Mrs. Louis Prang. Mr. Cochran asks for the MSS of my book on color. I say that I am not for the moment free to submit it - but will be glad to consider it later. They ask if it might not conflict with what he has already published - if he is not committed to Dr. Ross. He says no - "Those scales were simply done as job-work by M----- Your work would not be incorporated as that was - but published as a unit, a new book on color." Mr. Prang says he is coming to the lecture before the Society of Arts - and asks if he may step in to look around the studio - (sees Color Tree, Photometer - and Charts)

24 Mr. Pritchard O.K's photometer circular and we go to Heintzman, 185 Franklin St. for 1000 copies.

(On page 11a. there appear three clippings - two about the lecture of A. H. M. before the Society of Arts, and one which suggests a new color - "Rose du Barry red", which appears in the carpet of an auditorium here in Boston.) (The following color names are noted on this same page.)

11a.

	"crimson scarlet"	(Higgins Ink)
contradict	{pink violet	Florist terms
	{green pink	
	V brighter shade	Capt. Abney
	H&C true depth of tone	
	C toned down	
contradict	deep tint	Rood

Oct 26 10-10:30 Mr. C. F. Perkins at studio. Sees all new models and charts - and takes away the sketched claims (1902) for a system of charts - to reconsider.

12.

Mr. Crane (O'Hare Dial Co.) brings five enamels-

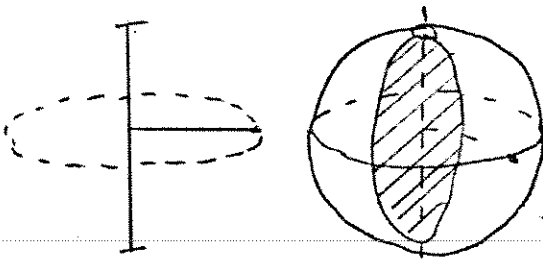
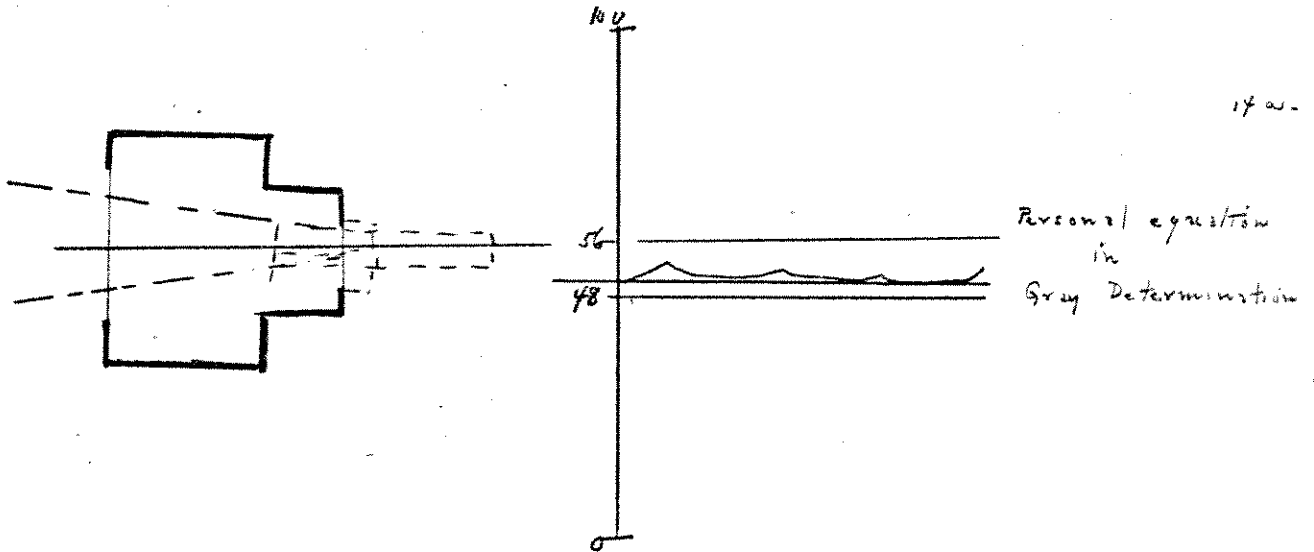
27 Mass. Institute of Technology - 599th meeting of the Society of Arts - 8 P.M. After dinner with Prof. Cross, Dr. Hough, and Prof. Prescott - at Tech Club - gave hour talk on "A Practical Color System, based on Photometric Measurements" - in Physical Lecture Room (22 Walker) to audience of over a hundred.

Spectrum 1 F #7 8 9 10

Questions until 10 P.M.

- Oct 31 Mr. and Mrs. Prang - to see photometer and charts - Mr. Pritchard.
- Nov 1 At Dr. Wendell's desk (4-5) Meet Mr. Swan, and Mr. Sawtelle and Mr. Hill. Discuss photometer and Perkins' figures.
- 3 Mr. Cram takes 5 enamels and samples - for Miss Grant to make a new set - Charges at .50 an hour. I suggest that blue is too dark, and green not strong enough.
- 4 Mr. Gilman at studio 2:30-3:30  
 $\frac{H}{C} \frac{V}{C}$  - (value culmination in white above) emphasize this order ("bonds of the system."  
 "A student (I) who was ignorant of previous attempts, used two cardboard pyramids to display color relations, between the extremes of white and black - 100 years before, a German student (Lambert), and 40 years later (Runge) had suggested a solid; Wundt (75) used it as common property in psychology - The present solid grew from the little twirling model of 1879: in which Value was paramount (the artistic foundation of color,) not wave-length. (Darwin took an idea current in political economy, and transplanted it into Biology. (Malthusian doctrine). Saint Saens heard several tones in a bell. Print large, a connected simple outline for teachers - " small the detailed explanation for students. (Enamels of a shape to fit on sphere.)
- 7 3:30-5:30 Room 23 - Walker - M.I.T. 13.  
 Gave talk and demonstration of the photometer to private audience. Drs. Wendell and Bigelow - Profs. Derr, Swan, Lawrence, Sawtelle, Drisco----- Miss Vinton and 3 (3d year) students.
- 9 4:30-5:50 Mr. Pritchard and Miss Peterson review first six grades - with Mr. Hopkins criticisms-
- 11 4:30 Miss Mary L. Patrick (899 Wash. St. Newtonville) and Miss Peterson - discuss materials necessary.
- 14 3:30-5:30 Room 22 - Walker, M.I.T.  
 Gave 2nd demonstration of a practical color system Same audience as Nov. 7 - with a dozen graduate architects.  
 In reply to Dr. W's question about next lecture - said it would be  
 { 1st A color notation  
 { 2nd Records of good and bad groups - Laws of harmony?  
 { 3rd Selection of colors to enhance a given color.

Acks for H. Section P-



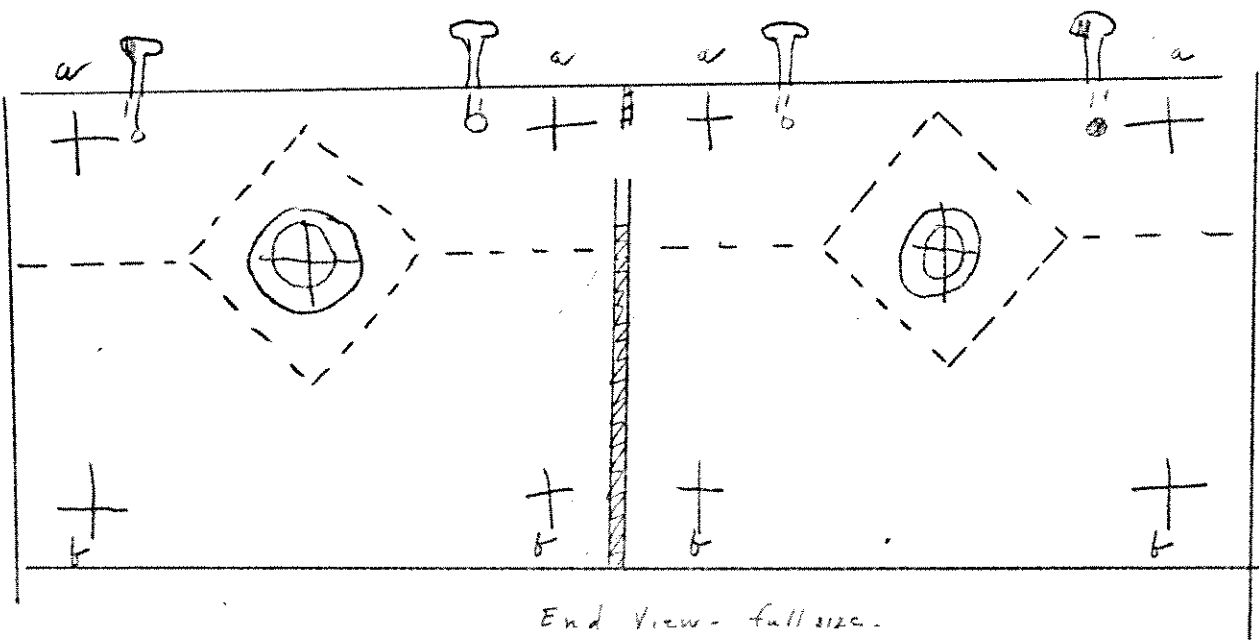
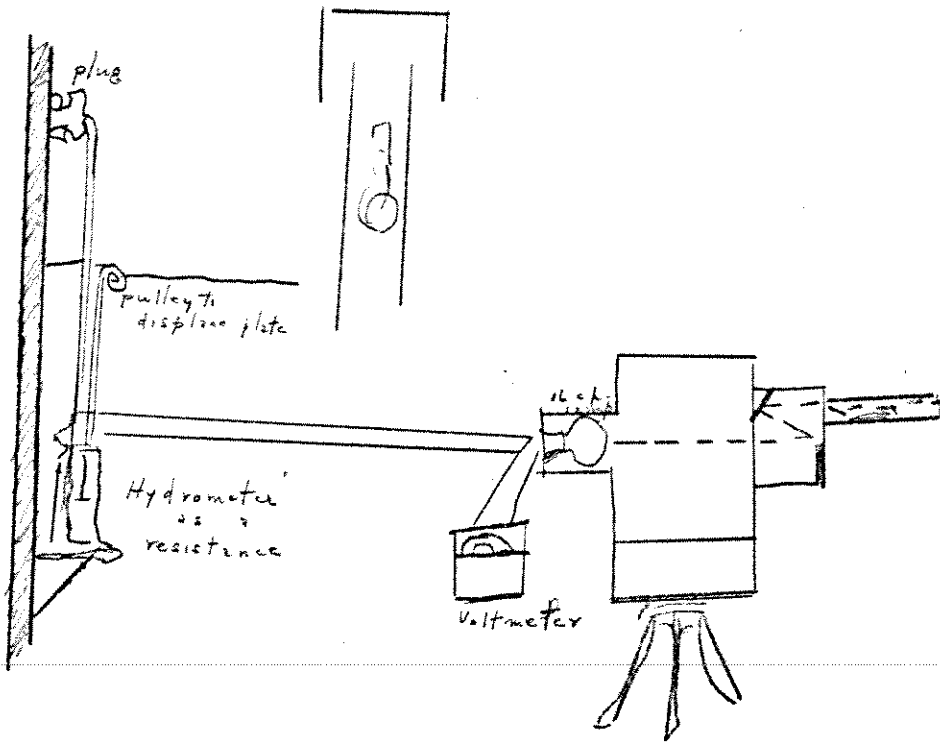
I show him the problem of comparing  
 sensation of light } - 78 : 22 :: 11  
 " " chroma } 2.5 - 1 - .5

Folmer & Schwing } Camera makes - rec. by Serrille & Anthony.  
 407 Broome St - }  
 New York. }



Wiring for a Standard Lamp  
in Photometer.

15a.



End View - full size.

a. a. through bolts, brass — latched w. in insulated.

b. b. 1/8 brass screws into slot size - 3/16 diam.

- Nov 19 4:30-6 Mr. Pritchard at studio -  
He does not accept Mr. Orr's program of partnership.
- 21 3:30-5:30 Room 23 - Walker, M.I.T.  
3d demonstration - Color Balance  
Drs. Wendell & Bigelow, Profs. Clifford, Derr, Swan, Lawrence, Sawtelle, Drisco, Gill, and Prof. Humphrey - group of post graduates -- Prof. Clifford says "I think it is sound" - (has not changed his opinion in the five years he has followed my progress.)  
Dr. Wendell - moves a vote of thanks & saying, "We are indebted to Mr. M. for a new and interesting view of color." Later - asked how to fix a "middle value" since it must vary with the intensity of the source of light.  
Asks Mr. Lawrence about a Nernst lamp.  
Mr. L. says it is most like daylight in color- but takes nearly half an hour to come down to a steady intensity when lighted: - also a change of voltage disturbs it again for some time.  
I ask about a Wellsbach mantle over gas or kerosene flame (Prof. Cross) and quote Abney's crater of positive pole of an arc lamp. Describe studio methods of controlling the light.
- Nov 23 Dr. Bigelow at Library - Rogers Bldg. M.I.T. 14.  
Talk over a paper on the photometer for the Tech Quarterly - 4000 words - ready by Feb. 1905.  
1. Necessity for a scale of Value  
Its value to artists & others who require a scale.  
2. How obtained. -  
The "middle point is 0" with + and - variations.  
3. Mechanism.  
4. Method of Use -  
Sources of error - precautions. Tabulate and plot color.  
5. Personal equation.  
6. Visual Ease as a factor. -
- Discuss color terms in general. Asks why "colors swear" Speaks of books by  
Chapman - Birds of Eastern U.S. and Bird Life  
Chevreul, Bunson - Frang  
Meyer - (Butterflies)  
Exner - Colors "beautiful and hateful"  
Charles Henry - (Sorbonne Librarian)  
Paterson

Nov 23 4-5 P.M. Mr. Pritchard and Mr. W. A. Bourne,  
 Expert in Signal Oils. -  
 Show photometer -  
 Read glasses - red & green (13 & 37)) then change  
 velvet & black paper - (18) ) by color  
 of light  
 Discusses test of two lamps - 60 hours continuously.  
 Tells of lack of air (high altitude ) as due to  
 " " freezing of oil (winter st- ) lantern, not  
 " " vapor on lenses (carbon product) to oil

Believes a test of color blindness - would be wel-  
 comed for railway employees - day signals - flags  
 night " -lanterns

Will send two lanterns and case of oil for me  
 to test - recommends "America-wick".  
 Thinks I might write Macbeth & Co. of Pittsburg,  
 W.G.C.Eglin, 10 Sanson St. Phila - about P.

Nov 24 10-11:30 Mr. Hopkins (Thanksgiving Day) 15.  
 Sees my plan to use black - middle gray and  
white paper with twelve special paints - to  
 make all color gradations.  
 This simplifies his fear about 150 paper (re-  
 duced to 50)  
 Discuss Books of 50 colors - to remain in schools-  
 while each pupil makes his own book of colors  
 with the crayons and three levels of paper.  
 Discuss 2 spheres - Primary - Grammar -  
 Offers to speak to Mr. Reed (Dixon Co.) about  
 the pencils - and Forbes Co. about the papers.  
 Sees no reason why I cannot issue the pamphlet  
 myself.

Nov 25 Mr. Pritchard - Talks over a partnership - Does  
 26 not want it to hurt our friendship - Rather  
 give his share than have that disappear -  
 Quotes figures on an 80 p. pamphlet -

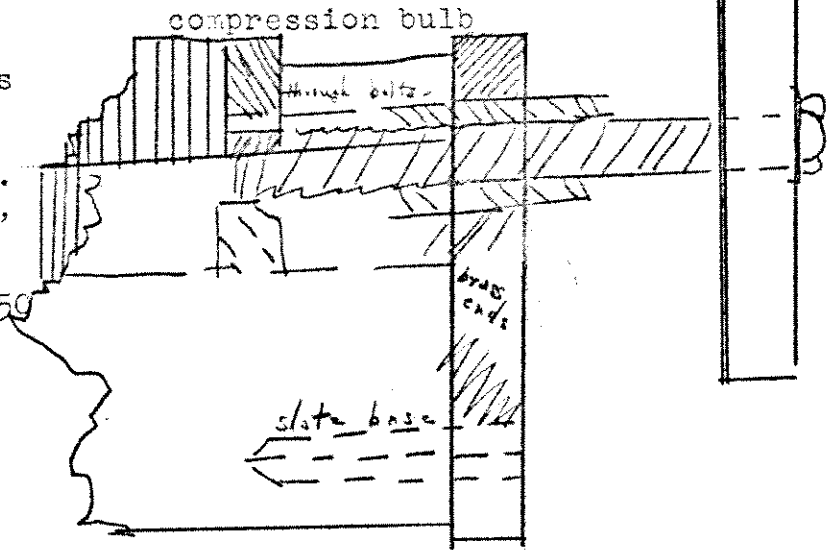
	1000 sheets	\$102.	
	500 bound	50.	
	30 cuts	10.	
	1 color insert	50.	
			222.
Say \$300. for 500 copies			66.
Cost 60¢ a piece			288.
St - not pre-revised	add. 30%		

Dec 1 At Mr. Lawrence's office, Elec. Eng. M.I.T.  
 Shows me a resistance

two rows of thin battery carbons -  
 100 sq. each - 1"sq x 1/10" thick  
 (\$15 - Stuart Howland - Franklin Sq.)

Also suggests  
 Hydrometer.

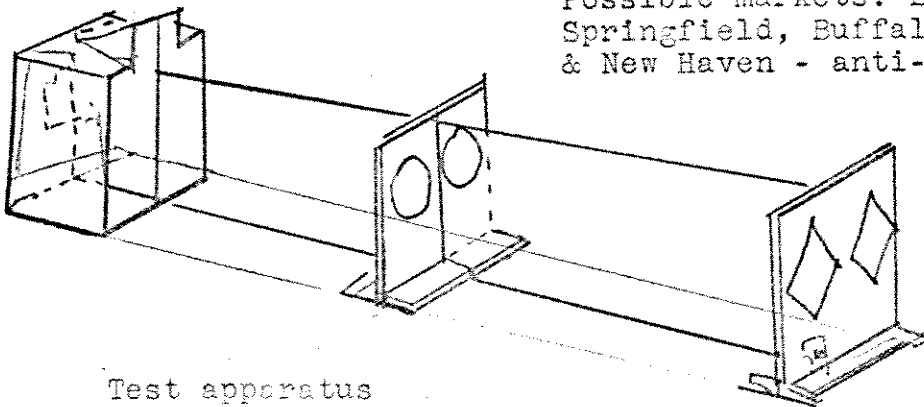
Western E.Co.  
 Waverly Park,  
 N.J. - Volt-  
 meter 0-150<sup>v</sup>  
 Model E -29.50



To install a standard of 16 c.p. on the commercial current  
 of studio - Discusses an Amyl-Acetate (Hefner) lamp -  
 but does not advise it.

See Findlay at Ellis & Co. 16a.  
 272 Congress St.  
 about handling the book -

Possible markets: Lawrence,  
 Springfield, Buffalo, Providence,  
 & New Haven - anti-Prang.



Test apparatus  
 to determine portion giving  
 greatest sensitiveness.

- Dec 9 1904 Studio 4-6 Mr. J. C. Peterson - 16.  
Discusses Harmony - Materials for the system -  
Possibility of commencing in 1 or 2 schools  
Feb. 1st.
- Dec 23 Studio - noon - Mr. Pritchard finds Mr. Bowker  
& Mr. Teale of J. A. Andrew & Son - considering  
color insert from my sphere - (plates \$25-30 and  
the printing of 1000) Returns MSS and says it  
is all right in the large: - some small matters  
to be reconsidered.
- 30 Joseph Dixon Crucible Co. Jersey City - 3:30-5  
Met Mr. Reed - Mr. Tracy, Mr. Engelkrek and  
Mr. Van Dorn. Saw processes and discussed colors.
- 31 At Mr. Cochrane's office - 113 University Bldg.,  
N.Y. 11-1:30 - Met Mr. Snow and Mr. Fosdick  
Explained terms - qualities and measuring color  
instruments. Left MSS for answer as to contract  
royalty, etc. M.C. suggests course of lectures  
in principal cities.
- 
- Jan 9 1905 Mr. Lambert sees photometer, Color Sphere and  
Charts. We discuss new clamp for spar of Slipper III.
- Jan 18 3-4,5 With J. Fred Hopkins at his office.  
Show him Cochrane's letters of Jan 6 and 11, -  
and discuss their meaning. "sparring for time";  
"would hurt their new books" - "kept my MSS  
three years" - "Said I thought it about time  
to send me a cheque."  
He will take a press copy, if necessary - and  
go before the Board of Supervisors in March and  
urge its acceptance - so that it may be placed  
upon the list for next year. "Let me have the  
copy by March 16, and I will say, 'Gentlemen, this  
is the best thing on color yet, - we must have  
it.' "  
Suggests Ellis & Co. or Folsom & Suningren -  
Questions offering it to Davis Press Co. (Bailey, 17.  
etc.) or Silver Burdett: - any rival in fact.  
But this would consume more time. Think I could  
get 1000 @ 35% - sell to dealers at 50% and on  
the market for 75%. Will be glad to help in any  
way: - suggests extract to be published in Journal  
of Education - with promise of an ad. - and other  
Journals.
- Jan 21 3:30-5 Miss Fiske calls to show her plan of  
design - especially line, form and color in millinery.
- 26 Mr. Reed of the Dixon Pencil Co. 1-2 Sees color  
sphere, photometer, charts & book (MSS) and

discusses crayons, - also a publisher.

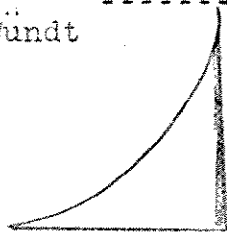
- Feb 2 Mr. Pritchard at studio 4:30-6  
Sees type, design for cover, etc.
- 8 Mr. Geo. Young (Hammet & Co) sees color sphere,  
charts, etc. Will send colored papers -  
Dr. Wendell tel. to question phot. calibration  
Geo. Taylor calls.
- 9 Mr. Winslow of Tech. Biological dept. calls to  
ask about color charts. Finds Prang & Bradley charts  
unfitted for his purpose.
- 14 Miss --- (his student) calls to obtain scale.
- 14 Change to 80<sup>lb</sup> white paper, and pick new cover -  
also add two lines on each page -
- Feb 20 12-12:30 With Mr. Young at his office-  
Discuss book - 40% com. Materials - 10% royalty.  
Spheres - 2" & 3" - wood - cost .01 $\frac{1}{2}$ -02.8  
15 paper 30 papers & white & Black  
5 colored pencils - .53 dozen boxes  
" " crayons .21 " "

-----  
 Jan 23 Mr. C. C. Birchard makes offer to handle this 17a.  
 book for 20% net sales - I to pay also for  
 marketing, circular their distribution and  
 all advertising other than in his general  
 catalogue.

24 Leave frontispiece with J. A. Andrew - and  
 see Mr. Findlay who will charge 10% of net sales  
 and packing when he fills an order for me.

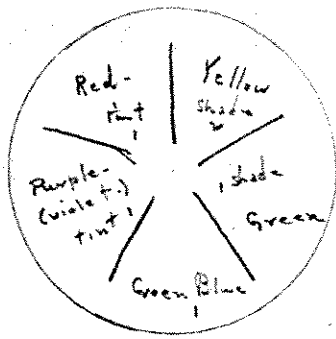
30 Leave MSS and Sample of cover with Mr. Findlay,  
 who agrees to have it out Feb. 20 - (Payment in  
 30 days)- To charge 10% on his net sales -  
 nothing on sales made by me- only cost of packing  
 and delivering. To bear their imprint and appear  
 in their catalogue. But it remains entirely  
 my property - they acting as printers only for  
 me, - and granting use of their facilities for  
 distribution.

p. 497 of Wünder



Fechner's law 18a.

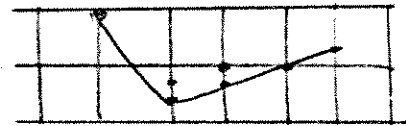
Weber's law illustrated  
 by Cats' eye shutter.



Hammett colors  
 red too strong  
 blue too dark

Feb 22 Began portrait of A.E.Orr - at 102 Remsen St.  
 for trustees of South Brooklyn Savings Bank.

Red	tint	2
Violet	"	1
Green Blue	-----	
Green	shade	1
Yellow	"	2



Feb. 20 Mr. Gagnebin brings Dr. Ed. Ulbrich and Mr. Metz 18.  
 to the studio 10-11 Sees photometer, sphere,  
 Tree and Charts. The Dr. offers to translate  
 my book into German.

~~3-4~~ Dr. Bigelow comes to look over my logarithmic  
 curve- Questions if its use is legitimate.

Mar 2 Gave short description of color at E. H. S.  
 71-74 dinner - Young's Hotel 7-10.

Called on Mr. Pritchard at Everett School.

Mar 6 With Mr. Finlay - Says I can't afford more than  
 25% off to teachers - printing of 1000 color  
 plates costs near \$50. - with 16 on a plate -  
 200,000 - 300,000 copies, it would be less.

Mar 16 Mr. Gunnison (Wadsworth, Howland & Co.) 4-5  
 Sees sphere, photometer, tree, enamels -  
 Describes machine for coating enamels - (5 rolls)  
 baking -(300° temp.) Can enamel on copper, tin  
 or cardboard. Mauve hardest to match -  
 Red (vermillion) must be heightened by aliz?  
 Thinks the set of five enamels (3x4) will cost  
 about 10 cents. Thinks sphere would be printed  
 by color process (10 sectors)  
 Tests color for matching and fading in sunlight.  
 Will make experimental samples and come Sat. 4 P.M.

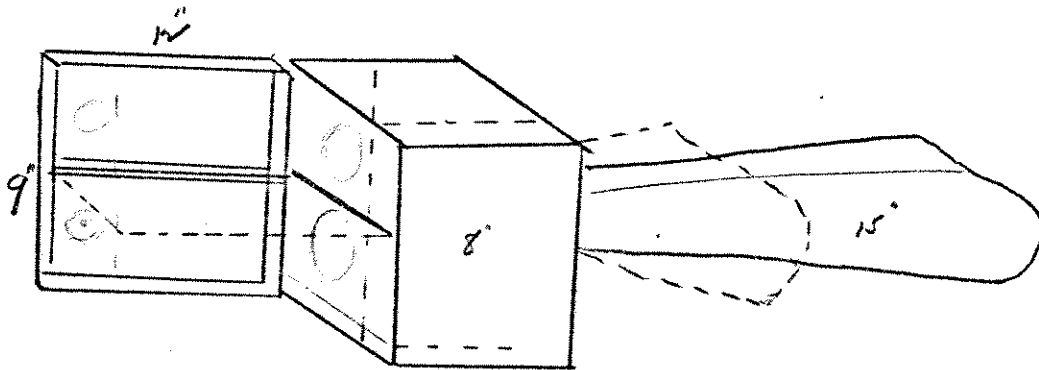
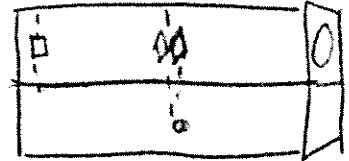
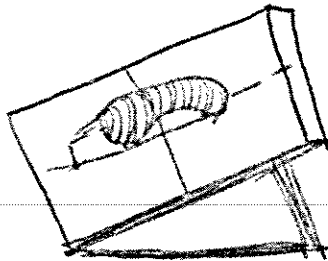
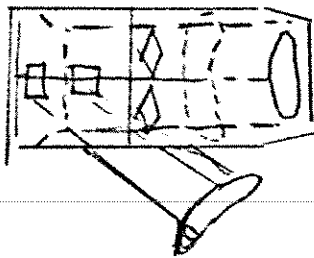
Mar 18 Mr. Howland with Mr. Gunnison 4-5:30  
 See all the system (except charts)  
 Brings experimental samples - Suggests continu-  
 ing experiments until I am content with results,  
 and then making me a proposition based on the  
 cost of producing the (enamels  
 (crayons 5 colored spheres  
 later water colors (colored balls-10 " "  
 to match.

Mar 29 25 copies of Color Notation  
 31 18 " " " "  
 Apr 3 Orr portrait finished in 13 sittings.

20 presentation copies.  
 12 copyright --- (Eng)  
 2 " " N.S.

April 10 W & H colors

Red - tube No. 3	} Red ch. } otherwise } Blue ch. } balanced
Yellow- " " 5 (darkened with 10)	
Green " " 10	
Blue " " 9 (grayed with 10)	
Purple " " 2 ( " " 9)	



Mar 27 Mr. John S. Clark 4-5 (Also Mr. Pritchard) 19.  
 1905 Sees mat. & models and charts. Accepts ideas -  
 "We must think color" - "Imitation has been  
 whole aim: now color per se." The teacher  
 must be trained for this new attitude.

Apr 26 12:30 - 1 N.E. Cotton Mkt. Asso'n-Chipman Hall.  
 Showed sphere - charts and photometer -  
 Mr. Hartshorne, Kittredge, Dennett, Eaton &  
 Sanborn (Utica) White, Gunnison, Bradley, Sawyer.

4:30-5:30 Mr. Gunnison (at above meeting)  
 Takes five colors to match. Suggests Converse  
 (to make spheres) and Babb - Mr. Mitchell (to



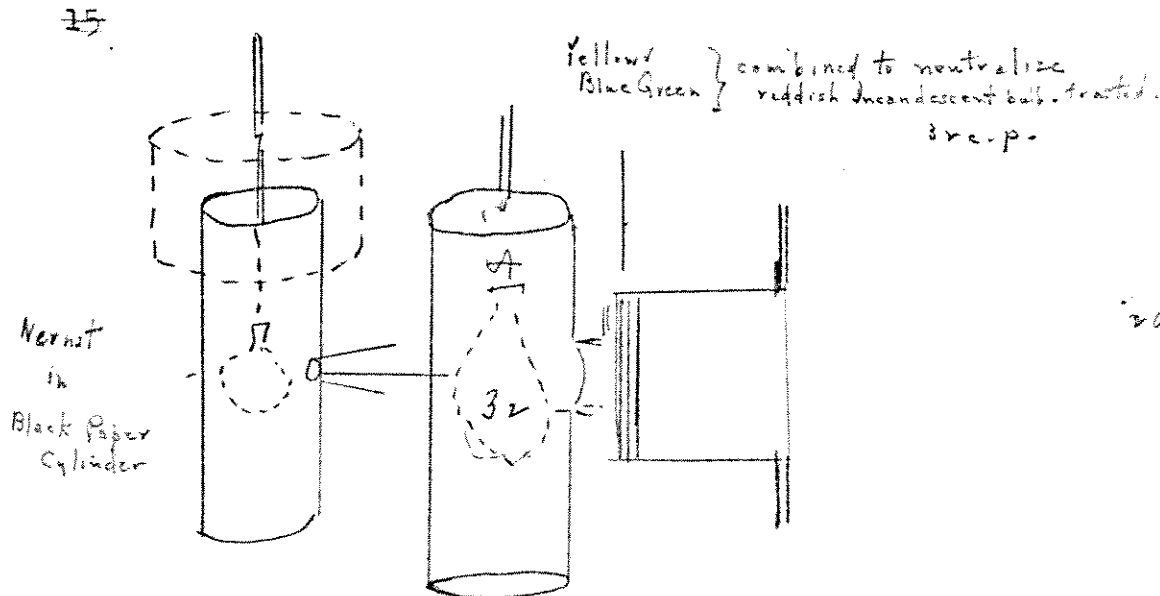
handle them). Will send sheets and crayons this week and talk with Mr. Howland about terms for me.

- Apr 27 3-4 at M.I.T. (Dr. Wendell & Mr. Swan)  
 Studied Lumner-Brodhun eye-piece - also Weber-  
 (total - reflection prisms) - Experimented with  
 cylindrical lens.-
- May 2 4-5:30 Mr. G- , Mr. Kimball, -Mr. Putnam's  
 educational agent - Show models and photometer.  
 Mr. G. brings two sets of color enamels- 1+1"
- 6 4-5:30 Mr. Gunnison - new set of color enamels- 2".

	R	Y	G	B	P
AHM	43	45	41	42	44
JM	46	47	41	35	42
Lyon	41	45	42	43	43
	<u>43</u>	<u>45</u>	<u>41</u>	<u>40</u>	<u>43</u>

R	Y	G	B	P
43	43	41	43	38

- May 8 4:15-6:30 Mr. Howland, Mr. Robbins and 20.  
 Mr. Gunnison - 25% royalty on cost of production-
- 15 11-12 Mr. Kittredge of Textile Amer.
- 15 4-4:30 Mr. Howland comes to discuss contract-  
 and accepts Mr. Orr's suggestion of a minimum  
 of 25% on cost - to be <sup>r</sup>considered at end of  
 2 years for increase if business warrants.

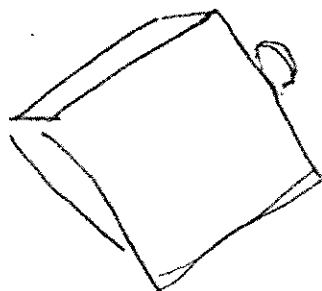


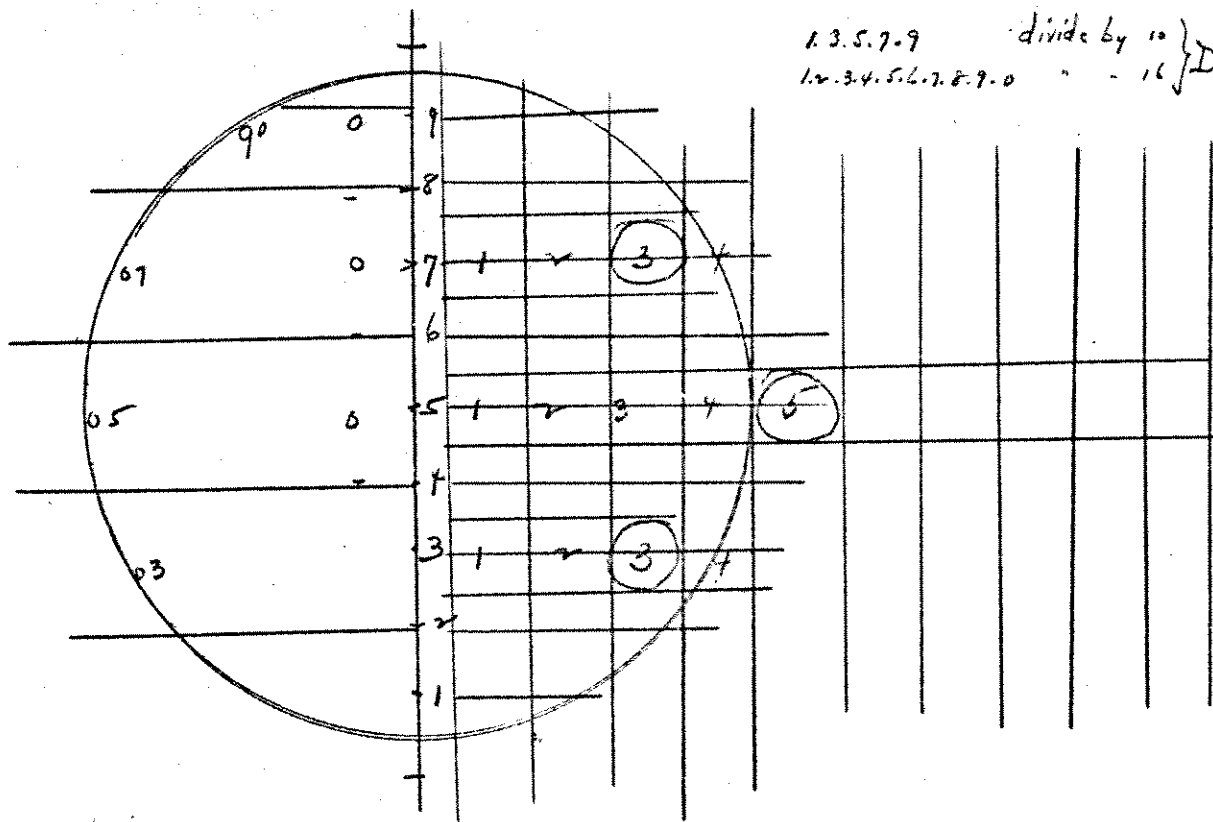
- May 15 4:30-5 Mr. Forbes calls to see P. and asks 20.  
me to make tests of light in Albany Bldg.  
(damage by passing train) - at 10 a.m. Wed.  
\$25. as expert witness and time spent in mak-  
ing tests.
- 17 10:20-1:15 Tests of light obscuration by  
passing L trains in Albany Bldg., Beach St.  
Boston, with Howard Forbes. Gray - overcast  
day - Light diminished from 45-82% by north  
bound trains.
- 22 1-3:30 Test of light at Albany Bldg. with  
Howard Forbes - Pleasant - sunny - but with  
cloud shadows flying.  
On first floor (room 104) 6'-6" from window,  
light diminished 76.6%  
In corridor of second floor 2-0 " "  
light diminished 60.8% by north bound trains.

(On page 20a there are figures concerning  
the above measurements.)

- May 24 9:30 a.m. At Dr. J. P. Haney's office - 21.  
500 Park Ave., N.Y.  
Showed enamels, crayons, balls, circle and  
two spheres.  
"You have done a splendid thing for teachers  
who are anxious to understand color. But  
they will best decide how to present it to  
children - after it sifts through their thought."  
"Children demand the strongest chromas - and  
like Dow you had better wash your hands of the  
ways and means for schoolrooms - devoting your  
attention to the teachers. That is a big field  
in itself."  
"We have found it best to give a straight rule  
of thumb, and when the teacher finds that this  
brings good results, - we say this is because  
etc. - : theory after practice.

- June 12 11 a.m.-3 - Mr. Rufus A. Herrick - (Tech)  
Am. Dyewood Co., 113 High St. Brings card of  
wound yarn to test P.  
Measure 2 readings of a blue (3% diff. according to lay  
" " " " " brown(.05 " because smooth)  
Describe bottle to test translucence  
of a solution.  
Show charts.  
Discuss woven mercerised fabric for  
charts.





21a.

Ray Bros - East Bernet - Vt -  
 E. B. Foster & Sons - for John S. M. } wooden bells.

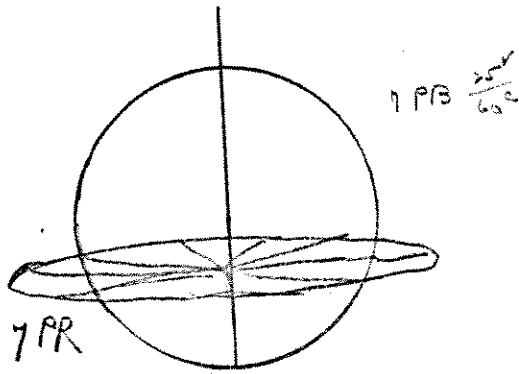
A.H.M	R.A.N.	A.H.M
Blue	Blue	Brown
27	37	21.75
25	26	19.5
25	27	21
$\frac{3}{3} 775$		$\frac{3}{3} 67.25$
25.5		20.75

27  
 27  
 28  
 $\frac{3}{3} 83$   
 27.6

Blue

24  
 22  
 22  
 $\frac{3}{3} 69$   
 23.6

21  
 20  
 21  
 $\frac{3}{3} 67$   
 20.83



1963

June 16 8:30 Met Mr. Hopkins in Back Bay Station -  
Advised papers for the lower grades - The  
spheres can wait.  
"Chroma is a familiar term to more than  
1/3 of our teachers at the present time.  
System can go into our primary grades next  
November, and in Grammar Grades next January."  
Try Christian Ross - Robert Graves Wall  
Paper Co. 5th Ave. N.Y. for colors.

June 19 Mr. Forbes calls, shows photographs and ad- 22.  
vises bill for professional services in  
conducting photometric tests at the Albany  
Bldg. May 17 -22 June 6 and 9 -  
Day and a half 37.50

Mr. W. H. Varnum -  
Calls to see color system and models.  
Give him book and reprint - He thinks to  
order 18 or 20 (teachers & library)

Mr. Lyon - 25 hours on spheres @ .35 8.75  
5 - 5 colors & B. & W.  
6 - 5 " 5 lighter, 5 darker & B & W  
1 -10 " v<sup>10</sup> v<sup>7</sup> v<sup>8</sup> - v<sup>4</sup> v<sup>3</sup> v<sup>2</sup>  
2 -10 " v<sup>6</sup> v<sup>7</sup> v<sup>8</sup> - v<sup>4</sup> v<sup>3</sup> v<sup>2</sup>  
1 twelve inch sphere, 10 hues, v<sup>1.3-5.7-9</sup>

Sent Mr. Gammon cut and text for Crayon boxes.

June 10 E. B. Estes & Sons - 45 John St. N.Y.  
White birch balls.  
1000 lots 5000 lots 25000 lots  
2" dia. 7.00 per M 5.25 per M 4.25 per M  
2 1/2" " 14. 10.75 9.50

f.c.b. N.Y.

(On page 23a there are figures on comparison 23a.  
of light cone in each Photometer.)

Aug 14 1 P.M. Mr. Clark (Milton Bradley Co) at 23.  
studio - Sees photometer and school material.  
Takes 2 spheres and set of balls to show  
Mr. Tapley. (Return 27 blue enamels to  
Mr. Gunnison to be flattened.)

Sept 16 Call on Mr. Clark - at 120 Boylston St.  
Says Mr. Tapley doubts patent protection of  
the colors. Thinks the spheres would be  
noisy (dropped often).

Sept 23 9-10 At studio: Mr. Arthur S. Allen, Tympalum  
Co. 248 Summer St.