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**Box 16, Folder 11 - "Maths" [Decimals; Arithmetic; Education for Democracy; Fractions; Two Points; Dominated by History; S. Periods in Development; Language; Seasonal Materials; Study of Numbers, Triangles; Teaching Religion; Geography, Geometry, Money Sums, Literature; Multiplication; Fractions, Teaching Notes; Mathematics; Groups] (E.M.S.)**

Edwin Mortimer Standing

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# "Decimals" (D. Fractions) 1

Lord Randolph Churchill -- "d-d dals!"

## Two Approaches

a) Through Fraction Apparatus

Conversion of Vulgar Fr. to Decimals

b) Through Base 10 System

Marlissou Malmals Lead Beyond the Limits

Pilgrims in Rd to Samarkand

"To follow knowledge like a sinking star"

E.g. higher than the highest

smaller than the smallest

Division Sam  $225 \div 2$

Remainder one

Game Beyond

Little Girls Ecstasy

Divide a Plastene Unit

length

hundreds

thousands

Compare with Dime Circle.

2

Estimates Meet - unimachable

Become Symbolic

Too big      too small

[Decimal S. No Frame]

Representable Beads

A Surprise

Looking to less Arrangement

th    h    t    ●    t    h    th

Notation Cards

Presentation

1) Show value of Beads and  
Cards.      1 above  
                                         10 below

2) Composing Numbers. —

Quantities and Cards

[again a surprise]

3) Cards to Quantities

4) Comparison with Vulgar Fractions

5) Organizing Large Groups

eg 25 tenths, 14 hundredths

16 thousands 15 units

6) Addition

7) Subtraction

8) Multiplication

a) Geometric.

$$2 \cdot 25 \times 3$$

$$5 \times 2.5$$

$$5 \cdot 3 \times 2.2$$

b) With Numbers :

a) Division  $5 \times 1.25$

(Assurance)

## Arithmetic

### A Tool Subject

Want until want it - in life

eg build a shop.

even as late as 7 years

learned by experience

### Other ways

Other ways Present to thing in itself.

but

a)

in concrete

b)

with activity

c)

Individual work.

concentration

maturational

## A Whole System has been worked out

### Numbers

Study organization of Nos.

### Operations

Addition +

-

x

÷

Branching into - Geometry  
Algebra  
quite naturally.

Discussion

Sharing

Do it with a class.

but

better - one or a graph

why?

1) all the concentrated

2) different stages

a) with class

b) with material

$\div$		
$\div$	2 =	
$\div$	3 =	
$\div$	4 =	
$\div$	5 =	
$\div$	6 =	

With 60 pegs

Handwritten.

? Was it good.

Make use of Decimal System

$$60 \div 2 =$$

$$60 \div 3 =$$

$$60 \div 4 =$$

$$60 \div 5 =$$

$$60 \div 6 =$$

$$60 \div 7 =$$

Some other Examples

$$365 \div 3$$

$$1476 \div 4$$

$$2907 \div 9$$

$$3108 \div 13$$

$$7886 \div 23$$

backwards

# History

## Enthusiasm

The great characteristic of the man of H.C. is enthusiasm. He does not work stupidly show interest — coldly — simply a mere intellectual interest. But <sup>he</sup> works with an ardent interest which brings them not only to what an ex. means times, but which brings his far and sentiment.

"With joy the stars perform their shining  
And sea its long moonshined roll"

The morning stars shrank with joy

---

## Understanding is not Interest

It is a different thing simply to understand a thing and be enthusiastic about it.

Simile of the Man & a Beggar

I understand: but I am not interested



Enthusiasm is a  
Vital Fact. — enormous value.

The adult is like a person who has become  
tired in the difficult art of life. — not easily  
enthusiastic —

Enthusiasm to rule with children  
the Exception with the adult.  
(of Genius)

We must treasure this spiritual vitality  
Such men — through our own fault to  
diminish it. This vitality reveals without  
doubt a state of special sensibility.

When we Sow the seeds in S.P. sow them in  
fertile ground.

S.P. are invitations to us to give certain things.

Orientation of Clubs Cons. to Vita Sociale

His First Society — is already real

His Prayers show it - "cat dog"

Bring it to a Vastus Plane.

To open the door to something beyond,  
Vastu than this circle of parents family and.  
Sentiment is there + will grow.

Example the Pen cut ties, made with, paper  
all for me.  
of Shop

"A person who thinks of a shop just as a place  
for buying selling is a person asleep  
Everything depends on how we awake the  
C. mind to the wonder of the world.

The other way makes the road heavy  
on our shoulders

"The Custom lie upon us with a weight  
heavy as ~~lead~~<sup>iron</sup>, deep almost as life itself"

---

History

(3)

Just To make clear the Distinction between  
the Past & the Present.

between the past & the epoch in which  
we live.

(~~"I've been to the Empire!"~~)

of Distinction between Physiology & Geology

Important practical thing for us is Physiology  
and for us

The vital thing is what is happening  
to-day

We can understand the Past only by what is  
going on to-day.

The present is the key to understand what  
was going on in the Past.

Because today also we are still in a  
period of transformation. & ~~we are~~ this  
way we are transforming our present  
helps us to understand the transform<sup>n</sup> of the Past

4.

So - to return - It is important to distinguish  
clear from the beginning what which refers to  
our time - to present - from what went  
on in the past

---

Thus an example - an indication.

Kings of England    ☰ } Black  
                                     ☷ } King George Red  
Princes of Kings & of England

---

### Yes We Study Origins

It is true you must study in history the origin  
of things we do to-day - but in doing so  
you must clearly distinguish

these origins    fr.

the facts of to-day

### Threads Going into the Past

So every cause in wh. we are interested  
must have questions going back  
to their origins.

# Education for Democracy

①

Demos.

Democrat (?)

Greeks

- 1) Every man take a part in Govt.
- 2) Be trained to be able to do so

Influences

- 1) Free Discussion everywhere
- 2) The Ecclesia - Assembly.
- 3) The Religious Festivals
- 4) The Greek Drama
- 5) The Architecture - including Sculpture.

(Weakness - Slavery.)

No Second Ed<sup>n</sup>  
Adult Ed<sup>n</sup>.

Cannot Bring Back. City-States

Our Problem

Education for Democracy.

A New Thing - Urgent Problem.

Idealogues in to Air

Clash with Democratic ideal

Our Aim not Definite Enough

Aims - Ordinary Parent

① Vocational Aim  
Difficult life - Competition

② For Culture

Longer leisure  
Personal culture

Both ① + ② are Individual

Man may be a specialist -  
no good as a citizen.

Quote Page 2

Crisis of Civilization

Individualism - at Reformation (?)

Last 300 years

Break up of Unity of Europe

The Great Unifying Authorities

The Sense of a Common Aim

a Supernatural Aim

- Gone.

Crisis of Civilization - result in

(1) Political control of the whole leaders failing

Producers - no demand  
surplus widening  
coffee burnt.

(2) The Great Danger of War

Remedy in Authoritarian Rule

appeals to Doerlit  
instinct of Self-Effacement.

Democratic Rule is more difficult  
life too complicated  
enormous forces set free.

Education shd help - does it?

① Most boys & girls finish Ed<sup>n</sup> at 14-16.

Can a boy at that age be  
expected to form a sound judgement?

Even a college graduate need not  
that studied public affairs  
"Union"

Irrelevant Learning does not help.

(a Question to be discussed)

"The polit. world is so complex & different that it is essential to train men just as conscientiously & deliberately for their duties as citizens as for their vocation or profession"

Democratic Citizen Should have:-

- ① A deep concern for the freedom & good life of his fellows
- ② Such a knowledge & power of clear thinking as will enable him to form judgements as to the main problems of politics & to decide wisely which party will be most likely to achieve the ends.
- ③ Power to select men of wisdom, integrity & courage as public representatives & a knowledge of his own limitations.



## Our Day

5

- 1) Schools - too much a question of  
knowledge . vocation +  
culture. (?)

And only to 16 years  
if universal

## The Assembly ?

The Radio p 63.

Advantages

Disadvantages

Discussions Public House.

The limitation

No shepherd. (Sister)

Adult Ed<sup>n</sup> W. E. A. a good thing

Reaches only an Elite

Greates trained all free citizens  
we ——— a minority

Architecture - zero

Get Parish Church

66



Educate for Democracy

drum's tone — for character  
cultures  
classics.

Ord human nature

Intellectual qualities —

wisdom, intelligence.

Judgement insight

Moral qualities.

disinterestedness

courage

honesty

justice & fair play

patience

self-mastery

power to endure & wait &

perseverance.

Note — no humility —

There are classical virtues

Pagan or Ch<sup>m</sup> Bk.

Page 11-12

Human Reason

Perfection

Can Democracy exist by itself

9

Can it grow out of a purely national soil

is to be lasting

Greek democracy. (slavery)

not lasting

Failed for lack of unity.

Roman Justice Failed in the end

The stern virtues of the R. Republic

Real Permanent Basis for Equality of Men

a x<sup>th</sup> idea - unworkable

In India "Die Then"

A Walnut 24

15 - 16 - 17

2 X7a System of Morals  
an Ethical Code

10

page 22

Socrates and Christ

Other nice comparisons  
as of ----- degree  
same kind of thing.

~~Q.K.C.~~ Q.K.C. 238

Brings us back to

Rehearsal

Real Conflict

~~Rehearsal~~

Communes

✓  
C. Church.

## History Continued

Ah that was the age of the saints & heroes.  
The people of great intelligence who made discoveries,  
— in a phrase "There were giants in those days"  
as if we were degenerate & dead people  
and so

we finish by being so!

(Emerson)

So we have no real knowledge or consciousness of  
our Present —

We don't know anything! —

So we don't see the dangers before us  
we don't realize the responsibilities that rest  
on us — real ignorances —

And if our mental powers are used we  
exert them on things that have no real relation  
to life.

Thus the custom bearing dates for examina-  
tion that a preparation for the present.

This Ignorance is more Dangerous than Inferior Complex  
which makes people feel they can't talk  
or work etc

The Inferior Complex is a covering to the Pers<sup>4</sup>  
the individual — but —

This Ignorance of the Present is something  
which affects adversely the whole of Society  
(Believe me!)

So this is an Cue - We must give these two things

- 1) From the beginning ~~to~~ from the earliest infancy to arouse interest in the Present. - that was of enthusiasm of which we spoke.
- 2) And this Present felt by the child with all the keenness of its S.P. must be illustrated and fortified by a sketch of its origins.

(I've been to the Empire)

Examples

WRITING The child is in a S.P. for language & is full of the whole business of writing & reading. (given in this living way!)

Some give him a history of the Cabans that humans went through to arrive at this wonderful achievement.

This arouses :-

a sort of gratitude

an admiration for these men

So from this feeling of the Present. are sent down into the Past these filaments of Gratitude.

For these men lived on their plane of the Present, as ignorant of it as we of ours - but what they accomplished

of all unhappy far off things  
+ Bubbles long ago



was not only for them but for us. who came after.

It is interesting to see this vision of things being prepared - albeit unconsciously - in the Past little by little for us.

So history should be permeated by the sentiment of admiration.

So we should cultivate this Social Sentiment this sensibility; this love; enthusiasm. for humanity.

The Effect of This What will be the result of this history not simply a story of "and unhappily for all things and battles long ago"

It will bring us to the feeling of our own task, our own responsibility. We are but the present of something alive - the growing point of the human race - and we are preparing the future.

After us it will march to a rather higher level. So we must cultivate this enthusiasm for marching to a higher level: and with this purpose life becomes even more interesting & full of enthusiasm.

Thus Writing - as we said we must give it  
in a later way - reliving & recapturing the  
discoveries of the past.

The Awakening of the Soul

in  
Relation to a Conquest.

Example. Language

Tower of Babel.

All is there - stones, iron, sand will but the  
work has ceased - Can't understand each other.

So comes a reversion for this Language which  
is a means of communication

Leads onto Study of Written Communications

Picture writing

Symbolic writing

Ideograms

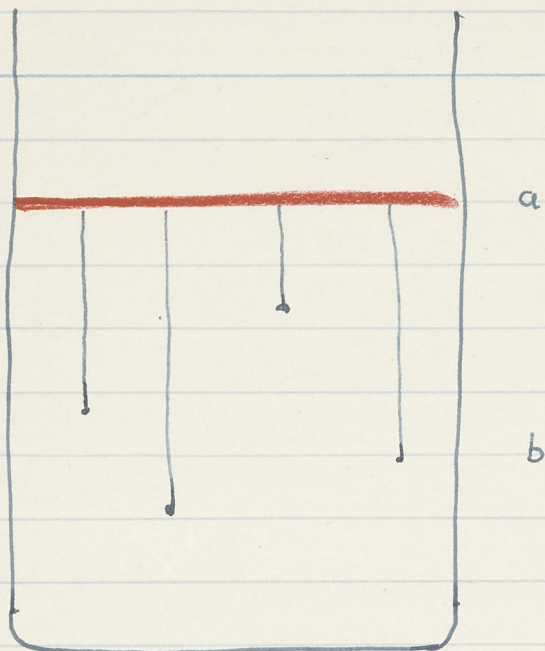
And so to Alphabet

The Symbolic Experiment To Clarity Ideas

- 1) Separation of P. & Present
- 2) Each important element in the P. has its roots in the P.
- 3) Each is a sort of construction.
- 4) Shows how the Present has come to be what it is.

So this in this fashion represents a study of many  
particulars

Shows the relation of our work with the past  
and with the future



(a) represents the Living part  
(like a tree)

(b) The Past.

(a) Living Part which is one level and the whole  
moves up together. Red Surface - It is  
the supra-structure - built out by us.  
Roots of origin gradually goes down  
to the Past (b)

Add water and the whole of a moves up  
to a higher level - the filaments still  
hangings on.

The student must read history actively + not passively.  
to esteem his own life the best + books to comment on  
.. I have no expectation that any man will read  
history aight who thinks that what was done  
in a remote age, by men whose names have  
resounded far, has any deeper sense than what he  
is doing to-day.

[ Ferguson discovered many things in astronomy wh.  
had long been known. The letter for him.]

The student understands the age of chivalry by his own  
age of chivalry, the days of maritime adventures +  
circumnavigation by parallel miniature sketches plus own  
"The Argonauts" (Golden Age)

# Fractions

Franco -

Fraction a Thing broken

"a fractured arm"

Begin early  $5\frac{1}{2}$  :

Describe the Material

The Common Standard

First Explorations

$$\frac{1}{2} = \frac{1}{4} + \frac{1}{4}$$

$$= \frac{3}{6} + \frac{3}{6} \quad \text{etc.}$$

Any number of expts

Then

Cards - more systematic

Examples.

1-12

Vulgar to Decimal Fractions

Home-made ones.

Geography

Maps + Names

Maps + mountains + names

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Practice Periods

Tue . 3:30 — 8

Wed . 4:30 —

Thurs. 3:30 — 8

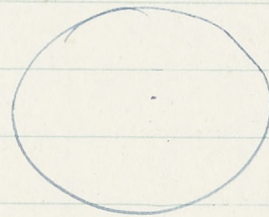
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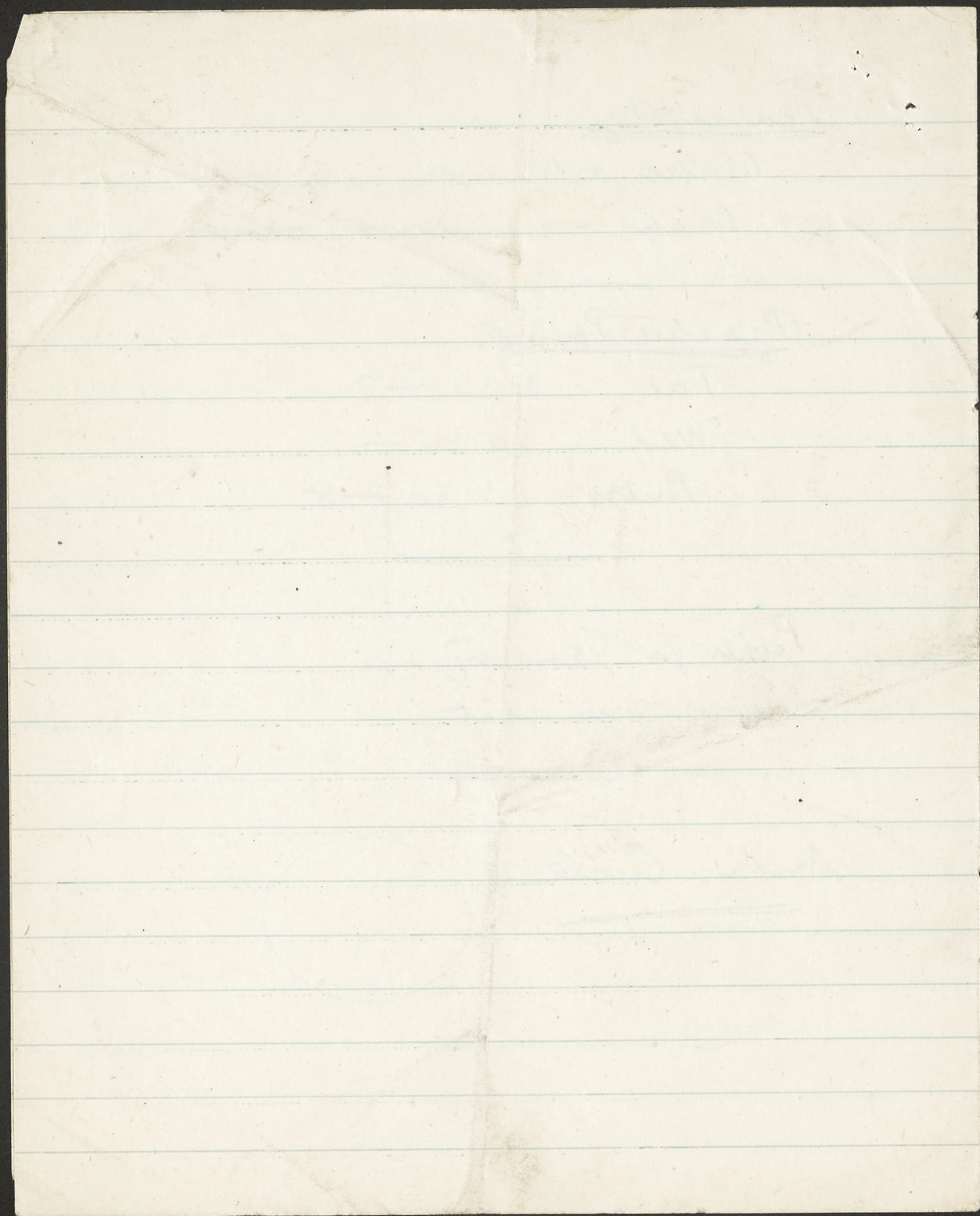
Paper for Geometry —

send out.

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Arctic Circle





# Analyses of Sentences

## 1) First Large Chart

describes

Example 1 2 3 4

## 2) First Large Chart

a) Circles + Questions only.

b) Circles Questions + Names

c) Circles + names only

3) Indirect Object 4 + 5

4) Adjective 6

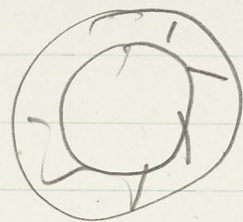
5) Double Sub. + Obj 7 + 8

6) Adverbial Extensions 9 . 10 . 11 . 12

7) Adjectival phrases.

8) Printed Sheets





auth<sup>e</sup> ©

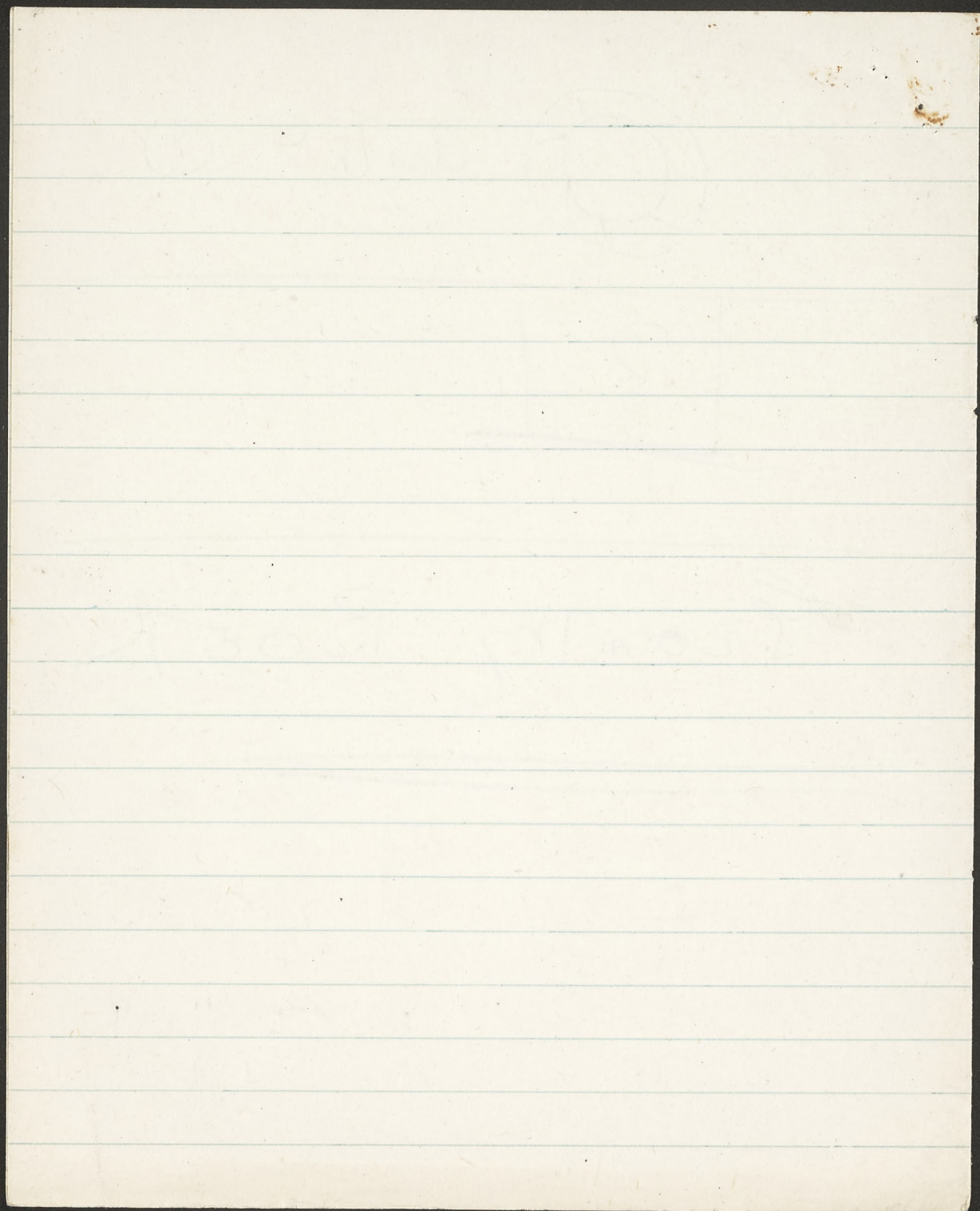
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131

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Geometry Book

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# Squares & Square Root

Show Dutch paper.

Examples on board (pictures)

Why give them these sums?

Arithmetic - Utilitarian or Liberal Study

Utilitarian - in social life - cashiers, traders

financiers - in commerce

also applied sciences

or

Liberal Real mathematics

" Here the interest is in the thing itself - in the pure relationship of quantities.

It is this higher interest - philosophical - of numbers wh. interests the child.

Our Path " in every case the question is to find the path wh. leads to the highest interest of the Intelligence.

The class cannot find interest in ex.  
wh. do not call forth the work of the Intelligence.

So Our Problem.

- 1) To give the elements clarity
- 2) so that - The work may go on +  
developed daily freely. —
- 3) thus - arousing a deep interest

Again.

"We do not give all these ex. in the work with the  
idea of doing some junky. (It does help  
us to do that - but that is not our aim)

"Our aim is to give a Gymnasium to the Intel<sup>l</sup>  
and to make me realize that it more we  
train the mind.

Arab Tradus - D.S - Commerce -

Shakespeare "I cannot reckon : I have not  
the Spirit of a trader!"

The do not do Arab for the sake of business  
but for growth.

Squares & Square Roots

Seasonal Preparation

(a) Broad Stair

- 1) Build neg fr. One step to next
- 2) Calculating Distances
- 3) Differences Between 10 Distances

(b) Square a Special Rectangle

comes in multiplication

- 1) Red Beads (tablets)
- 2) Short Band Stair
- 3) Squared paper
- 4) Peg Board.

write - it  $1^2$   $3^2$  etc

(c) (Jewellers Shop) Sq. Cubes & chains

1) Eg with Square of 4

- 1) make it
- 2) change to sq
- 3) Build Cube.

st for all

2) Comparison of Units. Sq. + Cubes

4

Calculate Differ. bet. Squares  
Differences Between Differ.  
with Cubes

3) Pyramid of Squares  
Tower of Cubes.

Squares across a Peg Board

Square Root Simplest Form

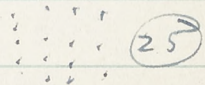
Look at any Sq. sides =  $4 \times 4$   $10 \times 10$

Set myself a Problem. " If I have  
a certain no. of units & I want to  
find  $\sqrt{\quad}$  I must put out in form of a Sq.

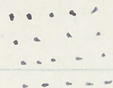
a) Smallest possible sq  $2$

b) then go on

past:  $3^2$   $4^2$  et so



Note



could mean three different things

1)  $\times$                       2)  $\div$                       3)  $\sqrt{\quad}$ (show  $\times$  &  $\div$  same thing.)

Depends on the way you approach

So far simply use own knowledge  
viewed in special relationship

Prepared not Precocious

### Square Root Forms

Divided various ways &  
Calculate.

We see a Certain Law

a certain pattern comes out

- ⊙ Two Squares Diagonal
- ⊙ Two Rectangles flanking them

[Geom. helps Arith<sup>c</sup>)

Do the Same on Peg Board

- 1) with 100
- 2) Different ~~Sizes~~ Squares

Always the Same

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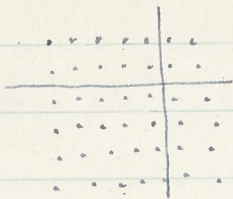
Beat Bar Ships + Squares



Square Root Contd

1)

So far



2)

Approach different way.

Start with

x	x	x	x	x	0	0	0
x	x	x	x	x	0	0	0
x	x	x	x	x	0	0	0
0	0	0	0	0	x	x	x
0	0	0	0	0	x	x	x
0	0	0	0	0	x	x	x
0	0	0	0	0	x	x	x
0	0	0	0	0	x	x	x

$$(5+3)(5+3) = 5^2 + 3^2 + 2(5 \times 3)$$

$$(5+3) \times 5 +$$

$$(5+3) \times 3$$

$$3) (a+b)(a+b) = a^2 + 2ab + b^2$$

With Diagram and labels.

Transition to Decimal System 8 2

See Diagram  $13^2 = 10^2 + 3^2 + 2(30)$ .

---

(Separately)

Build on  $14^2$   $15^2$  .....  $19^2$

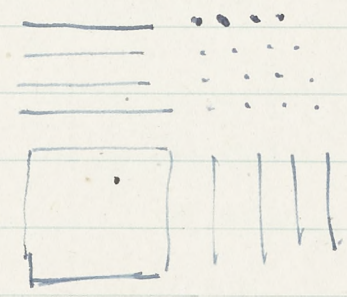
Then  $20^2$  ,  $21^2$   $23^2$

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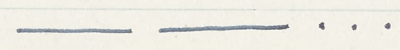
Proof By Building up

$14 \times 14$

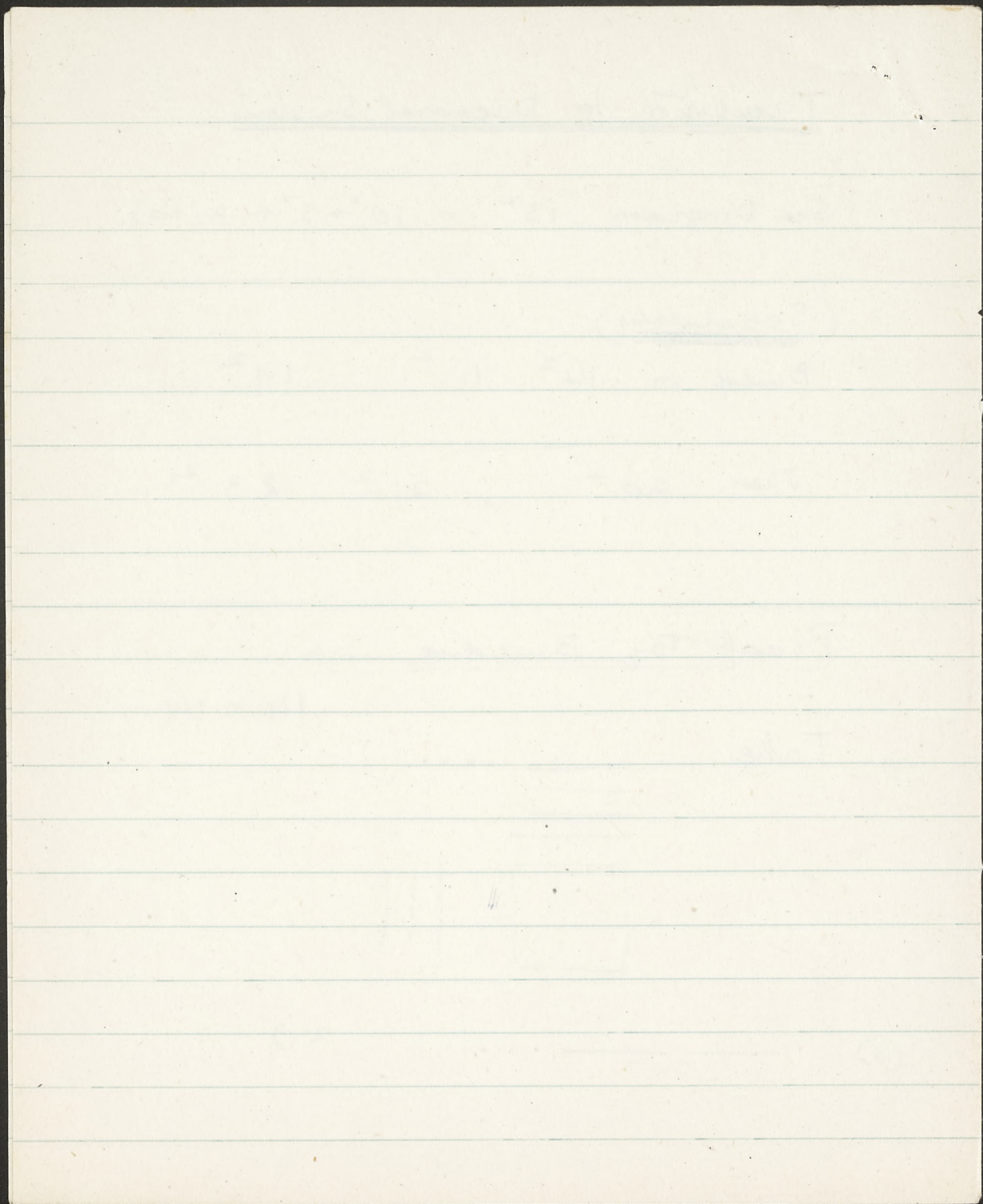
a) Take



(b)



23



③

35

3

9

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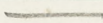
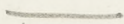
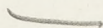
$tu$	$u^2$
$t^2$	$tu$

$$(t+u)^2 = t^2 + u^2 + 2tu$$

---

Example.  $8 \sqrt{576}$

$$\sqrt{2116}$$



10



## Square Rt Could

10

$$(a+b)^2 = a^2 + 2ab + b^2$$

17<sup>2</sup> in Dots.

Divide by 2 lines.

$$(4+5+8)^2 =$$

So Diagram (a+b+c)<sup>2</sup> into Card

Divided - as puzzle - into cards

Transfer to Symbalite Pegs

25<sup>2</sup> to Decimal System

a) horizontally

b) vertically

Squaring with Symbalite Pegs

25<sup>2</sup>

123<sup>2</sup>

333<sup>2</sup>.

Square Root with Sym. Pigs  
(tomorrow?)

first This Two + Two + Two - business  
Eschlarator Diagrams

[No even sq. rt of 10, or 1000.]

$$\begin{array}{r} 23 \\ 23 \\ \hline 69 \\ 46 \\ \hline 529 \end{array}$$



Friday March 2<sup>nd</sup>

6

## Two Points

### (a) Altitude of Mind.

Middle way - Scepticism + Blind Faith - Credulity.  
Apostolic Injunction. Test all things cleave  
to what is good.

He that doeth to will shall know of the Doctrine

E.g. 10-19 before hundreds.

A Great wisdom will always seem unachieved.

### (b) Those letters "Don't ask him to Read it?"

Seems strange.

Trick stranger than fiction.

Why not?

He simply can't do it!

Explain why. — Two Rhythms.

Analysis.

Synthesis.

Examples.

panama.

Give the key — explains language.

Another example. —

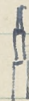
p	u	p
---	---	---

 with letters.

Not Montessori.

Example yesterday

Brown Cylinders



or

Myself in this Ex. of D. System. — show man

The Passages      The Intervals. - Transitions.

A scaffolding.

Going up a Camera Steps - Platforms.

The Steps Between.

A.      10 - 19

① Beads only      .....      etc

② Figures. Frame.

③ Together.

(rods)

Boards

B      10 - 99

nine units : nine tens.

n. Cards on their faces.

The Story - Anecdote from Da.

C      Passages and Written Names

D.      With Cords and Beads

Variation.

Together.      or Separately.

E.      The Roll.

F      Hundred Chain

Thousand Chain.

## Apparent Contradiction

- a) Straight away to Hundreds & Thousands
- b) Stay a long time Counting

Knowledge Brings Interest,  
and Affection. Companionship

## Simile

- ① "If I am introduced to a person I like him that is not the moment for me to turn my back on him for ever"
- ② If I have learned to ~~sing~~ swim - I don't stop. I do it all the more.

A Sense of Power.

A Compass

An Exploration.

## Stumbled Chair

### The Thousand Chair

"Sweet to set forth....

along the Golden Road to Samarkand.

"Those that go always a little further

An Event.

Lead it down

The Midgard Serpent -

Stations along the Line

Units

Tens

Hundreds.

Anecdote

I'm kind: may I stop here + go on  
to-morrow.

The Flame of Interest

without Interest no Education.

(Anecdote "I know but I don't give")

Respect for a Thousand  
The Rajah's Rufes.

We must not be dominated by history

Rather history should clarify + give more value to  
the present + the conquests of the Present

We must give more emphasis on the Present than Past

### The Usual Mistake

But generally speaking since the present is so  
near to us <sup>thus we</sup> we know it + need not talk of it

<sup>(in fact we are)</sup> Of the Present we say: Oh we live in it ourselves  
so immersed in it that we are more or less  
unconscious of what is going on. [The last  
thing a deep sea fish wd. discover wd. be water]

And so as our attention is not directed  
to the Present (as the Present in relation to the  
Past) it is our duty to do so - to direct  
attention + enthusiasm to this living Present  
which is of such utmost importance

<sup>we are</sup>  
As a result - we do things in the present -

write letters. read books. see a house - without  
feeling anything of special interest about  
what we are doing - cold + unconscious -

But in history we shut the past

to us

S. Period in Devlt

- to

N.S. A Glasgow

24/4/45

glass + jug

Cup + Saucer.

# Sensitive Periods in Development

## Introduction

Nursery School Movement.

Administer it.

A very Significant Movement.

## The Century of the Child.

An awakened Social Conscience  
Part of a great New Movement  
in Humanity.

Social Value of Child in  
Constructing Civilization

A Turning Point in Humanity

Either Destruction or Reconstruction

Every great Movement its Interpreter  
Dante. Aristotle.

Dawson.

Prophetic Spirit of the New World  
Marlinton to Focus.

Her Work -

Revealing a New Child

Reveals & Normally  
Concentrates Intellectually  
Loves Order  
Silence

Loses possessiveness  
Mutual helpfulness

Self-Discipline

Chooses Hard Path.

Miracle  
of Montessori

There are Facts - full of Stake & Promise

How to discover them?

First Independence or liberty

Second Prepared Environment

The New Children vs Radice

The Real Children

Can study to Real Child

in Freedom

Revealing Environment

Freedom in  
P Ent

See him as he is

① Child always Developing

Differe Between A & C.

Is in a state of continuous  
change or transition



This Developmt. can be looked  
on in various ways.

Eg Growth in Independence

Birth, Weaning, language walking

- to Continue this -

"Indep means to do oneself  
what has hitherto been done  
by another"

Thence

Every weaning and arrests event.

If we give Indep<sup>c</sup> + P. Event

reveals many things

- including -

Sensitve Periods

what is a S. P. ?

A Term from Biology  
De Vries

Example

The Caterpillar

Analyzing it we see

- 1) a phen. of a developing organism
- 2) Related to the Event
- 3) like a Search-light
- 4) An Ewanescent phenomenon

Some Examples Of Vital Importance

- 1) Language.  
Example China  
come back
- 2) Interest in Sensations v. Ideas  
Sensuous aspect of world
- 3) S. P. for S. M. activities  
Synthetic Movement
- 4) S. P. for Order.
- 5) S. P.s for Social Dev't

many more

stop at these

S.P. for language

Void  
Secret affair

Begins v. early

Before Speech.

"Stealing words"

Example

"Arrowllam!"

Importance of Correcting  
mistakes

and Speech in Environment.

A S.P. fixes

"This is a ~~idea~~ --"

Latin Word Studies

"Words! words! words!"

"Composing words" Abicadabra

1) "Naming lessons" Veluchat neta

Long Short

Effects W-210

Language use!

2) ~~Moreable~~ Sand Paper letters

Touch

3) moreable alphabet.

Analysis of Words.

Composing word - not reading

Veluchadragan

10 210

4 1/2 - 5

Writing Three Parts

"Explosion"

Writing like Reading

S.P. Sensations

Explorer.  
Ship ~~is~~ sails  
Reason at helm

Available

See child stealing abstraction  
Building up a world within  
That

The Preliminary Confusion

Example Touch what it means?

Example Sizes - Dimension

- 1) Child + moon
- 2) Helmholtz Plus Math
- 3) Tony + The Garden
- 4) Mt + Child to Cow  
etc

So Materials for Size

E.g. Cylinders

Same in everything but height.  
Fascinating to look at

E.g. The Family

But more Active

So for Calam, Pitch; texture / geom  
Geometric forms / Analysis

7  
Repeats repeats  
why?

Inner Growth

End of action is "inversible"

Diff from Adult

WORK OF C & A

Except Galper - proves  
to ~~be~~ rule.

So with Pink Tower - Long Roads

in

Calamus -

(show)

Bells; stuffs, weights

It's all inward Small Industry

Explorers of Universe

God's Spies "take upon us  
the mystery of things"

The World is so new, so strange.

Anecdote

"The Antlers"

↳ ambiente Preparato!

## Sensory Period for S. Movement

• Repetition.

E.g. Washing a Table.

Why?

Inherent Personality

Not so to Charwoman

Child In Complete Incarnation

Movements vague & immaemate

"Spirit is willing but flesh is weak"

Therefore - a longing to do things in a particular way.

What way - accuracy.

to a definite end.

∴ Ex of P. Life.

examples

Self

— Ernst

Dutch Schools

Points to Remember

- 1) a definite real aim
- 2) Instruction
- 3) Freedom to Begin — and End
- 4) Analysis of Movements

Ex of P life

Teach. Teaching -  
Not imitative  
Logical analysis of moments

Ex

## Mature of Perfection

9

R

Examples.

Star + 50g

CW

## S. P for Good Manners

This is time for perfectly  
essential elements — all —  
of Social life

## Lessons of Grace & Courtesy

Examples.

Saluting

Excuses

Excusing for disturbance

## Sensitive Period for Order

Most remarkable of all.  
Culminates at 2.

Examples.

The ~~coat~~<sup>hat</sup> in wrong place

The Lady to Cloak.

Everything must be in its  
right place

“Wrong End of Barf”  
Christine



## A great opportunity in N. Class

Insert an order.

You will be met by an unexpected response

insulting  
cloak

Numberless examples.

## Significance of the S.P. of Order

Evidence of Creative action of Intellect

Signs of Success in new Country

Points

1 → 5  
2 → 6

- 1) Keep everything in its right place
- 2) Order comes to C. fr. Envy
- 3) Some order & order will serve you.
- 4) " Sewa Ordinem →

## The Last Year Order

This Creation which is given in  
"Grantsing" Columns Numbers

- 1) General Outline
- 2) Details

Passes to Culture or School Lessons

Eg. Path to Number.

Cylinders 100

P.T.

B. Stair

Long Stair

Number Rods

and so to more Order  
in Quantities

Same in Language

Letters

Words.

Spelling

Sentences - Grammar

Work not Play

Reality not Make-Belief

Valorization of Pessimism

Contentment

(Ballads Contrast)

Other Periods

Boy Scout Age

Adolescent

Assist Dept

Beyond us

A new world for a New Man

Warring Nations

Peace

New World - New Man

# Arithmetic

The Teaching of Arith<sup>c</sup>.

B. of Ed<sup>r</sup>

Why Teach it  
useful?

Practical —

"I cannot reckon - - - -"

Necessary for life

Shopping

Times of Trains,

Statistical Population etc

Is that why?

Worldman

Tool Subject

Not to teach math needed

as a tool.

Is that the best way?

Most conformable to C. nature.

Before he comes to school  
Is he interested in numbers?

Yes?

of Colours  
Sizes <sup>Big, little</sup>

Learns to Count. "one two 3 etc"

A spontaneous Interest

Pascal said —

Human mind is math<sup>e</sup>.

Are animals the same?

Chimpanzees

Birds

Or?

Why?

Intellect.

Contrast

Class

Chunk

∴

∴

Intellectual Agents.

Power to Abstract.

Must Be Concrete Foundation

Two Things Necessary

a) Absolute Class in Concrete

b) Certain maturing of mind.

Another Point of View

Distinguishing

1) Teaching a subject

2) Developing the mind  
thru a subject

Importance of both as the result

All children love Arithmetic  
(Pascal)

The First Step which Counts

Difference Between • and ••  
(and in multiplication)  
Once started — how fast?

1st The Age. about 4.

The Terms Work. Nos 1-5  
+ Composition of

Ridiculous the keeping back

The Cause.

Don't understand Spontaneity of Mind

and necessity for.

Actual with Material

The Point of Contact

The First Stages

Methods (as a class)

a.) Work 1 2 3 4 5.

Say (children)

Good?

Why not?

Not associated to real essence  
which is.

- a) multiplicity
- b) in a whole

1	2	3	4	5
:	:	:	:	:

b) Ordinal.

1	2	3	4	5
:	:	:	:	:

Good up to a point?

Any objections?

- 1) Too rigid -
- 2) Geometric form.

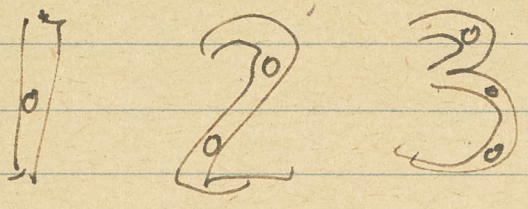
c) (Class still) with Objects

cont



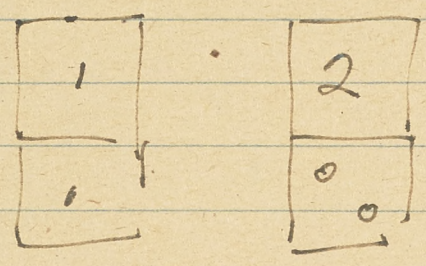
(a) Games Coming Things -  
 children  
 window pane  
 pencils  
 etc

(e) Individual Activities



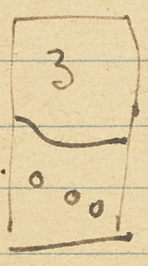
①

(f)

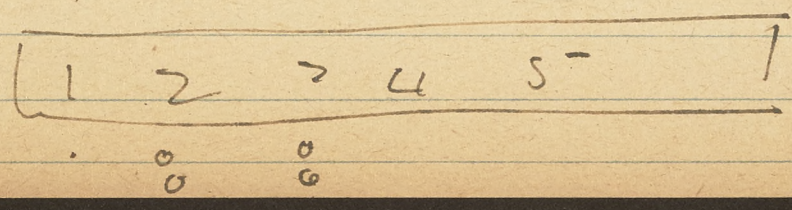


Pulling on  
 Camber

(g)



(h)



How many 45

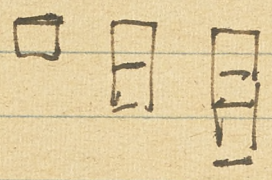
not just

1 2 separate  
:

See Relationship

"Spread Your Knowledge Out"

①



Sliver

1) Relationship ordinal & cardinal

2) keeps it Same

Number Rods.

Bigness a help.

The Cupress

- (a) Sand paper  
 (b) Tracing Paper  
 (c) Ground glass  
 (d) Copy them

N.B. Always a set on a

Card hand 1 2 3 ... 0

Eg E instead of B.

- (e) Make a row  $\rightarrow$  mill ticks  
best ones

## Games

- 1) Do something 3 lines  
 eg clap.

hit desk

walk

hop

- 2) Bring me - 3 chestnuts

- 3) Gwe 4 - get ... 0 0 0 0

(4)

The Shop.

Cost 6 pence.

(9)

(5)

Clock w. movable hands.

put to 8 or 6.

(6)

(6)

The Names of Ordinals

First

Second

Third

Fourth etc.

(7)

Which would you sooner have

5 sweets or 8

5 spans or 8.

L

Belius (Subjects)

# Arithmetic

Infants I

Oct. 5. '48

11:30am

## Why Learn It?

1) Practical Use - Money Shoppons

2) Importance in Our Civilization -

Mechanical Age

Numbers into counting - Sciences

all based on it:

Applied Sciences - radio.

3) Philosophical

Pure knowledge -

The Octave (7)

colours of rainbow.

Days of week

Scale in music

Atomic weights

7 Ages of man

7 Spirits stand like God

Atomic weights

4) For Development

Difference. Teaching a subject

a) instruction

b) develop.

Human Mind Essentially Mathem<sup>e</sup>

2

Pascal.

A different Subj.

"All children love Arith<sup>e</sup> ? ?"

Montessori Announces it

30 years experience

Two Forms of Intelligence in Children

a) **Imagination**

needs no special means  
to reveal itself

b) **Mathematical**

Needs special means or aids

Smile of Microscope

Reveals what is thus  
hitherto unknown.

So A Special Technique

This exact work.

Revealed an intense love for Numbers

Most interesting Subject.

Number an Intellectual Operation

(3)

No intellect - no number -

Eg 0 0  
0 0

(a) Chimpazee

(b) Idea of 4.

Number a Test of Deficiency

0 0

one - and one  
- and one ad lib.

The Great Gulf. - one - TWO

So man has this Potentiality

No number at birth

But to potentialities to use b it

How this Potentiality becomes Actual?

Thro Experience in Environment



## Spontaneous Process

(H)

Creation - to Rough Divisions

Comes from to Concrete

Abstraction.

What Form of Concrete

The Idea of Number is based on  
to Relationship of quantities

Van Indirect Preparation

Regular Gradations of Quantity

- (a) Cylinders
- (b) Cubes
- (c) Broad Stair
- (e) Long Stair

Which is best -

and

why?

# The Long Stair

5

Study it & its use.

The smallest in each series

The Unit

If I call this "1" - rest become 2 3 4 5 6

The Fact - No Experience Comes First

Child cannot count

but

knows the fact.

Number does not yet exist for him but

the notion of it does

Thus by playing with this game  
a fundamental idea

A satisfying difference.."

Page 15 in MSS Book.

16

Principle of Stoak ←

Raw material is this p. 16

17 Metric System Freshadowed

# FIRST STEPS COUNTING 6

People say. Arithmetic different units led to  
count & measure — have it till 7 years

## Principle Analysis & Sep'n of Different

### What is Counting

Basic is a unit

3 + 1      4 + 1      — etc

More than this — Calculation.

### Three Difficulties      1 - 9

#### 1) Units as a fact -

Granting of units.

The fundamental idea.

The essential thing

#### 2) Names given to the

quantities as we accumulated

#### 3) The Copies

## Making the Groups

7

1) Swallowing up

∴

2) Separate Piles  
(Domino Pattern)

3) Number Rods

## Comparison with Spirals

Quote page 23

## Principle of Mental Economy

The Permanency

also to Size of Value p 24  
of small rods (bottom)

## Ordinal or Cardinal

The Order of Knowledge

① Quantity

② Name

③ Copies.

## Lesson Seguir

8

### Material Comes You On Exercises

$$\text{Ex } 9 + 1 = 10.$$

$$8 + 2 = 10$$

$$7 + 3 = 10$$

### Other Composition of Other Numbers

$$6 = 5 + 1$$

$$= 4 + 2$$

~~$$= 3 + 3$$~~

$$7 = 6 + 1, 5 + 2, 4 + 3.$$

### A Sort of Game

No need for shaps.

Must have freedom.

### SPINDLES

multifocus in trust.

Any objects.

(9)

## ODDS & EVENS

### Rods Spindles Candles Compared

Rods — quantities given — no cipher.  
Spindles Ciphers " find quantities  
odds & Evens  
Nothing given. —

## ZERO

A mystery.

Introduced by Spindles

### Objects Game with Cards

$\boxed{3}$  or  $\boxed{5}$  or  $\boxed{0}$

or Clap so many times.

March 19<sup>th</sup>

## Language

English ... or

### Reminder to Distinction.

1) Teaching with that 2) Assisting Devl.

"Difference between knowing a thing and growing  
becoming greater thro' that knowledge"

### Sensuous Period for Language 0-7

e.g. Parents + Child to China

Babies "stealing words"

So we are helped by Nature.

Writing (or Reading) is an extra language

Look at Speech

No one teaches it.

Baby most dumb of creatures.

Why?

Intellectual Acquisition

"The Intellect with word." Page I

Mysterious companion of Intellect.

Speech.

Mechanism Comes first.

Baby Talk

Da-da-da-da ... "Summon his father"

Arrives to Intellect wh. uses it.

Language completes inner creation

Naming person (Reading) <sup>345</sup> 6-7-8 p. to  
effect of.

A New Interest - an Enthusiasm  
Language in itself.

New Words

Geometric Shapes -

Silly?

Read "Int. Word" - page 11 - 12

Our Knowledge a Hindrance 13.

"Human Face!"

Words & Ideas Together.

"Int. to Word" - pgs (bottom

Newman 27

Helping Duclott. 24

Importance of Spoken Word

"accompanies solemn acts of life"

Vow: "Marriage.

Priest.

Soldier.

Judges Sentence

"When the word is spoken, something is done...  
for the word changes what is to come from  
what was before" - almost like the

Creation now - Said "let there be light"

Belief in the Word:

33

Child has an intuition of this.

New Attitude to Language - In se

not simple abt. material things - much used -



Two Points in Montessori Method

- a) Very early age 4½-5.
- b) Writing before Reading.

Two Definite Stages      Writing (1)      Reading (2)

a) Writing - of a lower order.

We confuse it with expression of ideas

No -

Sensor-motor -

mechanical -

Auditory images.

Does not touch higher centres

— affect the Motor Ego.

The Mechanism is being Prepared -

Away to the Intellect

of Speech - natural way

---

Principle of Analysis of Difficulties

Three Main Difficulties.

a) Metal Insets -

Two Stages a) unimodal b) bimodal

b) Sand Paper Letters

This new interest in language.

Physical Habit - use for

establishing & fixing muscular co-ordination.

## Writing is a Conquest

A Thrilling Conquest.

A new language overlaid.

A language without spoken word.

Something that lasts.

Of great importance.

History + Pre-History.

Principle "If we have a discovery - a product of the past - civilization of the race to offer to the child we must offer it in itself. - in its word + symbol."

"We must not blur the fact - the essential nature of it by confusing it & classing it round with a tiresome & unmeaning drill - i.e. the preparation of the fingers.

For writing gives a man a new language - it is not to educate mechanically his muscles of the fingers.

Each thing must be in its place  
We must not place this conquest in a lead light - this conquest wh. the child must re-live for himself.

So the Ed<sup>n</sup> of the hand must be done separately.

So Principle of Separation of Difficulties

3. Main.

a) Metal Insets.

Two Stages a) Prep<sup>n</sup> for W. b) Art (limited)

b) Sand Paper Alphabets

Primarily an interest in muscular co-ordination.

Part of Physical Devel. — a period for establishing & fixing muscular co-ordinations.

The stand has been prepared.

Ch. trace letters with pencil.

Don't read it. Want Stereognostic memory.

This is muscular movement wh. gives its interest.

Alphabet a Stone Quest

Previous forms — picture-writing ☺

Discovery — "Each sound in the word composed can be represented by a sign."

Ecco tutto. That is all.

Principle "If we have a discovery, a product of the past world, we must offer it to the world — in its simplicity & simplicity."

Writing Book p. 6 — and 7.

Studies everything in her Emat

Language from a new pt of view.

Relaxation after work.	11	<del>6</del>
Lesson in Phonemes.	19	<del>4</del>
Intellectual Hunger.	45	
A Marlson Exam <sup>er</sup>	49	
The March of the Alphabet.		

### Moveable Alphabet

Moving the words few the sounds of D.S.  
 Child of the Constructing his own language  
 ∴ > interest

a) Separate sounds b) Same in diff words

Analysis = deeper knowledge.

The Musical Box — key presto!

Give him the key — leave him.

Phonetic languages. —

Phonetic words — first — a structure. (Heagerty)

10

210

re.

Chemical Difficulties. — 26.

Meditative Being. Strada.

Professors Challenge. — Darmstadt

etc.

Explosion into Writing —

everything ready The hour strikes

11.45. last week

Next week.

Not Reading

Chemical Subst.

stored Psycho Energy

(3) ①

## Seasonal Materials Could

### So far Quantities

Definite measurable variations

The Three Dimensions

(only) A Suggestion - "Montessori Exploration"  
By Discovery.

[not exactly the same - still]

Find out ①. How the unit of the series goes into the rest.

Express it as a law

② The Difference Between each successive pairs of adjacent members of series  
 $a$   $b-a = c-b = d-c$  etc

Something of the Same Thing

### Differ by Quality (can't measure)

Same principle of isolation of stimulus.

Differ - can't measure it. exactly.

Colors; S. Boxes; Bells; Touch Boards; Stuffs.

### In General Two Ways of Doing Them

1) Pairing. Identity

a) Greatest Contrast

b) less.

2) Grading Steps.

# Colours

S. P. for Colours.

Colours everywhere in M. S.

Frocks, tables, flowers, dusties, beads,

Anth: Grammar: Geom<sup>y</sup>: — everywhere.

Remember - Not to give new colours

↳ we order, change, distinction  
ideas.

Presentation (Mrs. M.)

- Pairing
1. Small box 2 colours (lid)
  2. 3 pairs.
  3. Add more
  4. All

Gradation. one set (Tray)  
2 sets (alone or with friend)  
3 . . . to 9 sets.

Matching By Memory

Different Tables -

Up to great concentration

Wonderful susceptibility

Write Down

Naming Exercises

Not suitable to teach new words

aren't new

e.g. Long and short.

Why Then

Same reason as Manuals.

To Give a new kind of Order. How to Do It

Almost  
vesting

Not Casual or Stunned.

An Event.

A Preparation - An Introduction

ex. "I am about to impart something  
of importance"

Slow, solemn, apart. A Priestess at a Rite

(Do it again - An Initiation

Rebellion in it - a lot.

ro330 verde

So. - that is all -

Much too about Nothing. What have we done?

We have drawn up two words from the Abyss

Solemnly linked them with 2 objects

The word & the Idea.

The Word is a mystery -

a wonder.

An Intuition of Higher Things

"In the Beginning was the Word"

By it all things were made that were made

So in this little word

The Word has great power.

Sets going a mental movement

which goes on independent of us.

2. Like a drop of crystal in a mother liquid.

A new sense of power + value of words  
(Cator out) Wordsworth

Touch Boards D Touch. of Pressure. & Stereognostic sense.  
(Intellect - Distinction)

A whole world to children -  
lost us us. "A lost world"

Only the Blind can appreciate it.  
why? Partly difficulty of eye adjustment  
Partly - S.P. for it

Non Immense urge.  
"Don't Touch that or I'll"

Still. Tentacles of opening mind  
more than eye → Recognize letters by Touch movement

Touch differs from Pressure.  
Eg Braille Tablets

The lightest Possible  
Music Critique "Tread!" on piano

A Touch - Technique  
Important. → S. p. Atlas  
Ciphers  
Geometry

"Over to you"



" Invisible power attends to motion of the  
viewless minds

Embedded in the mystery of minds

Wordsworth

5  
Stuffs.

Sound Boxes.

Bells.

Can regard these in two ways

- a) Musical Instrument
- b) Sensory Material.

We deal only with latter here.

Just like. Sound boxes

Calamus

- 1) Identifier & Control - Pounding
- 2) Grading

See Isolation of Stimulus

The Elementary Material

The Sensorial Material

13 1/2 cm

Many Criticisms -

Reason for Faith that is in us  
also more interest; & more understanding.

Last Time Body & Soul. -

The Flesh - Muscular System.

Action in & on outside world

The Senses - are Bodily organs

Gateways of Soul.

Sources of our Knowledge of Outside World.

Wonderful gifts. (lose one & you realize it)

Difference Man & Animals

Both Senses.

No Reason. Monkeys and Fire.

Catch monkeys.

Both Start alike Fascinating Thing is Relation Between R & S

The Unaware of the Neo-nato

Prof James.

We must try & imagine it.

Strange new world.

New sensations - new functions.

no idea of uses of things  
their shapes

of the Self + Non-Self...

No ideas

No memory

no personality

"Big Buzzing Confusion" - Thatness

Smile of Factory - Room.

All Bits + Pieces unrelated -

Immense Jig-Saw Puzzle.

At once Begins to Work. - Reason.

e.g. The Two Men. Comparing + Contrasting.

Time "Last Night"

Causality "Fall up to Chimney"

"I sneezed ..."

Juggle + Rabbit

Space E.g. a) The Cow - Stave it!  
Fall ~~up~~ into Cup.  
Tony & his garden  
The Dale & the Baby's Chair

The Three Year Old Has Done Wonders.

Towards making Odu

Has Jig - Saw Puzzle - in parts

Explorer

Has Archæic Map.

Still a Heavy Cross.

"Dragon or Dragoon".

But The Order Has Begun

An Inner Creation

Micro Cosmos - Macrocosmos.

The Odu as Creation

1) The General Parts  
Main Divisions.

2) The Finer Details

3) The Name.

So we see these main divisions

1 2 3 4 6 7.

not

Numbers

12 4 6 red.

Blue for green etc  
but a colour

Colours

Thursday.

Days of Week

Still a great Deal of Chaos

Purpose of Dictates S.M. To Create Order  
More or more detailed Order.

Eg Space Sizes of Things

Cylinders.

Line/Slair.

New Order within Reveals new things in Ernst

Eg Workman window. — lines

Your coat is brown

The sky is blue.

Your ~~other~~ dress —

Cardinal & Biscuits

Workman's head & B. with

} colour

} form<sup>e</sup> Forms

3) Naming persons:

Creation completely a Name.

## Intellect works

Comparison & Contrast.

Mind puts things in Categories -  
by their likenesses

"Here is your Tea for an pipe"

In a road Classification

## Order Running Through These Materials

Contrast.	}	in	Cylinders
Identity			geom.
Gradation			Colour
			Sound
			Bells
			Bells.

1) Yang chutun - strong contrasts

Begin with strong contrasting elements





# Study of Numbers - Their Anatomy

or

## The Passages

### Revision.

Usual method. - go on to use now

### A Study of Numbers

of Words. - Relations of

### Passion for Counting?

Why?

|" Enthusiasm comes fr. having  
understood something"

Understand first

Then now

A Form of love

(2)

He takes 10 B and B as

know them well

A form of love

I know his name & yet I intend  
to go & see him

That is not true I turn my  
back on him forever

Sing a song } reheat songs  
Dance a jig }

"Grew to nail of hurry"

One ~~habit~~ lesson Nat. let me  
learn of this  
of Tail increased from ~~hazards~~

Interest in a Malinal Thing

an Acting

3) 1) Interest

2) Enthusiasm

3) Exercises of Patience

A form of love

Importance of these things for

Auto-Education

Told you Arith<sup>c</sup> natural to  
human mind

But you must give it in

the right way.

## Reverse

Q Numbers set Cards

Cards set nos.

---

Always 9. nos

Any number up to 1999.

---

## Unlimited Mat

Any numbers —

① get — not more than 9

② Datto Dynamic.

---

# Passages

1) Cards over each other  
Units.                      with Beads  
Tens  
hundreds

2) Short Bead Stems

3)            10 + 1            Beads alone

4)            10 + 1            with Board  
              + 2

5)            10 — 99

6)            with alphabets

1                            11                            20

2

7

9

19

90

7) Straight ahead

123 . . . . . etc

8) With Ball

9) Thousand Chain Skinned Ch

---

Second Bird Eye View of System

CAFES

**49, MUTLEY PLAIN**  
(Phone 5322 Plymouth)

**4, LISSON GROVE**  
(Phone 5321 Plymouth)

**MOOR VIEW HOUSE**  
(Phone 3801 Plymouth)

**CROWNHILL**  
2, MOORSHEAD TERRACE  
(Phone 71424 Plymouth)

SHOPS

**49, MUTLEY PLAIN**  
(Phone 5322 Plymouth)

**PEVERELL**  
FINNIMORE'S CORNER

**PLYMSTOCK**  
CHURCH ROAD  
(Phone 78-3106)

**ST. BUDEAUX**  
111, VICTORIA ROAD  
(Phone St. Bud (84)-154)

**CROWNHILL**  
2, MOORSHEAD TERRACE  
(Phone 71424 Plymouth)

Bakers, Confectioners, Caterers



Tea and Coffee Specialists

REGISTERED OFFICE -

**49, MUTLEY PLAIN,  
PLYMOUTH.**

OFFICE TELEPHONE -

PLYMOUTH 5321

C. A. & W. GOODBODY, LTD.  
GOODBODY-MATTHEWS, LTD.  
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WILLIAM ATKINSON.  
CESAR BROSSY (SWISS)  
E. BONVILLE FOX.



Indirect allah. 3

Commence to Baby.

The Willful Adult 5

Actual Goodness 5

Discipline a Path.

True Rest - Actual

( Discipline in Actual )

Rest p 11 and 8

Good.

Discipline or Rehabilitation

All phases of life

Obedience

Stages

Training of the will

The Will

Not Breaking the will

Athlete.

Exercise of will

Examples - list

Good Manners etc

Habits.

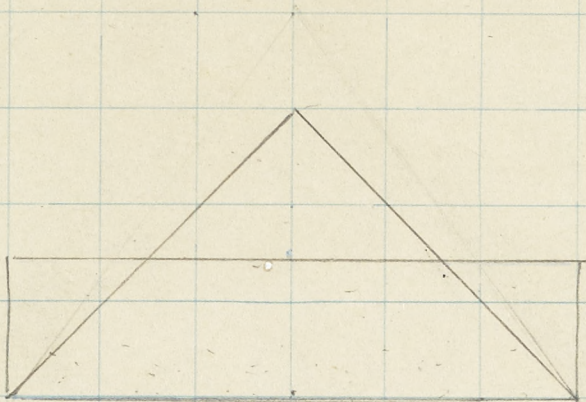
Strenuous Efforts in

margin of course

} Rest the Action

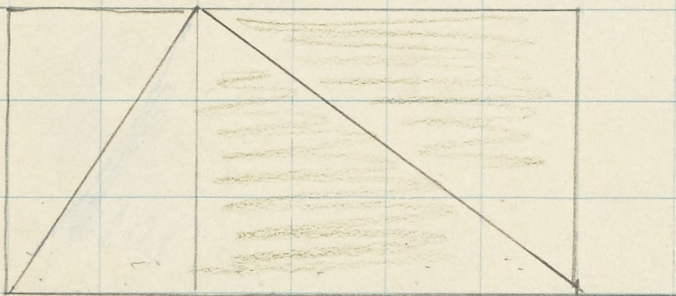
Will must Act.

$$\text{Area of } \Delta = \text{base} \times \frac{1}{2} \text{ height.}$$

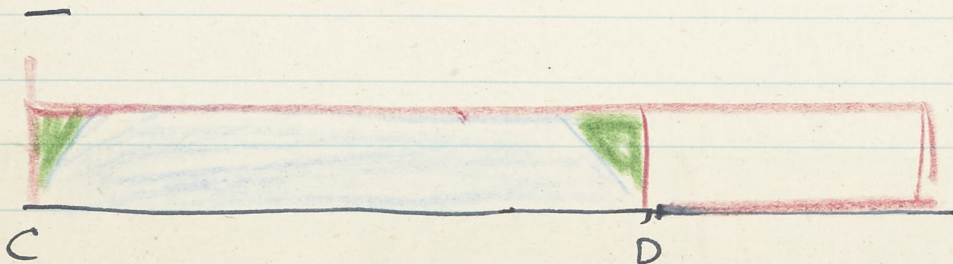
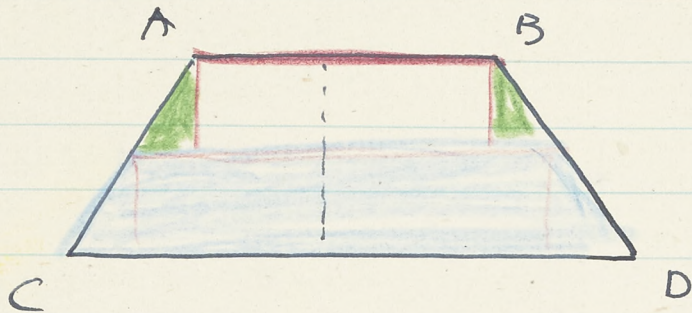
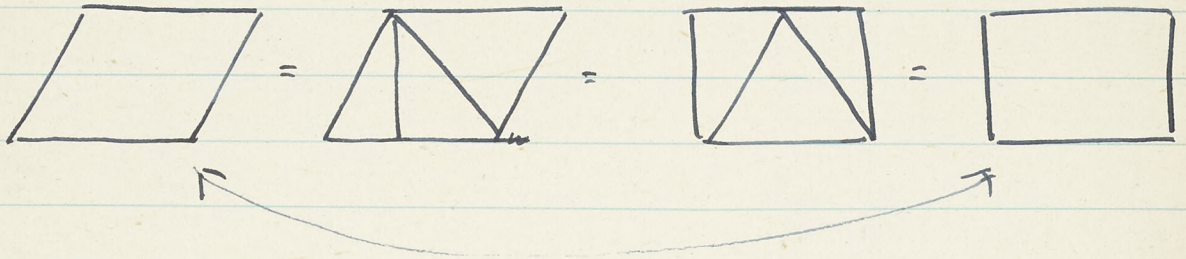


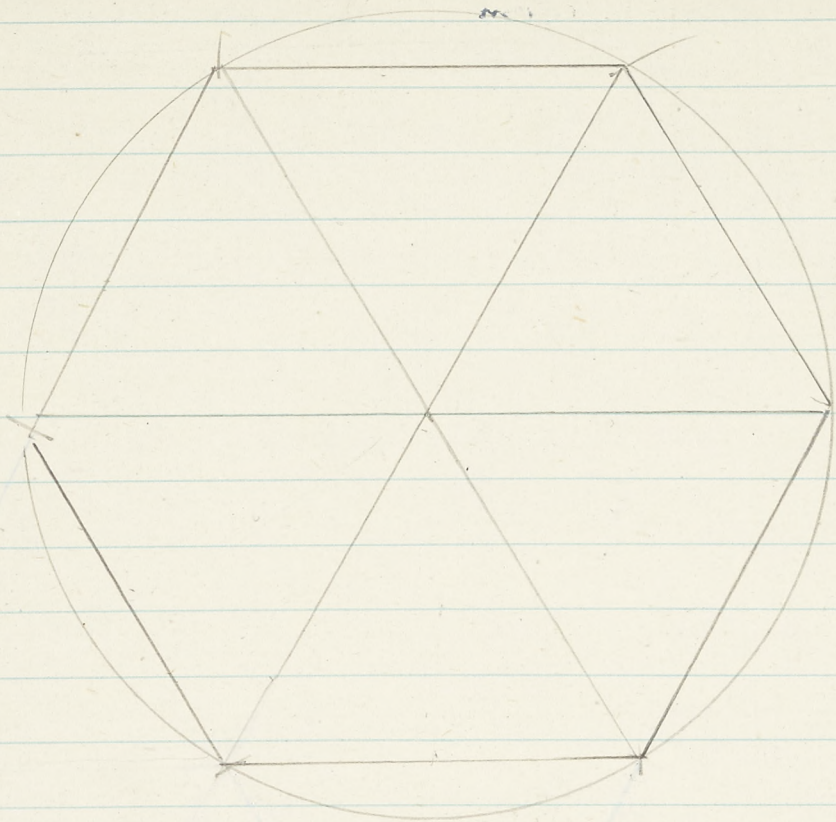
Alternative Proof

$$\frac{\text{base} \times \text{ht}}{2}$$



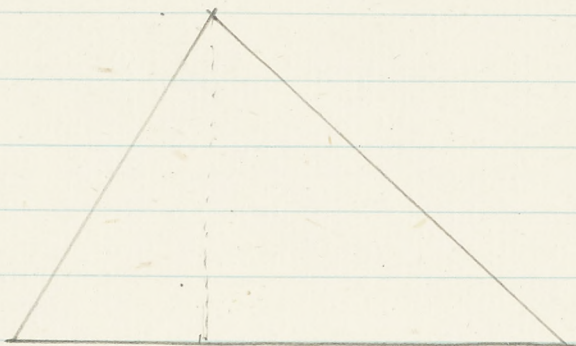
# Problems + Theorems



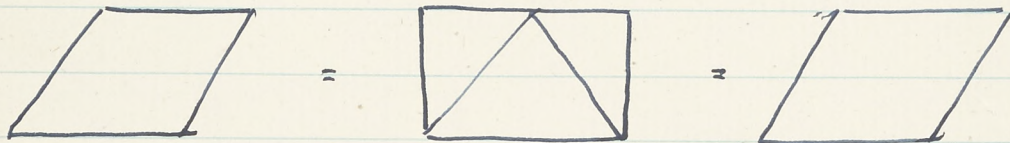


## Theorems Based on Equivalency

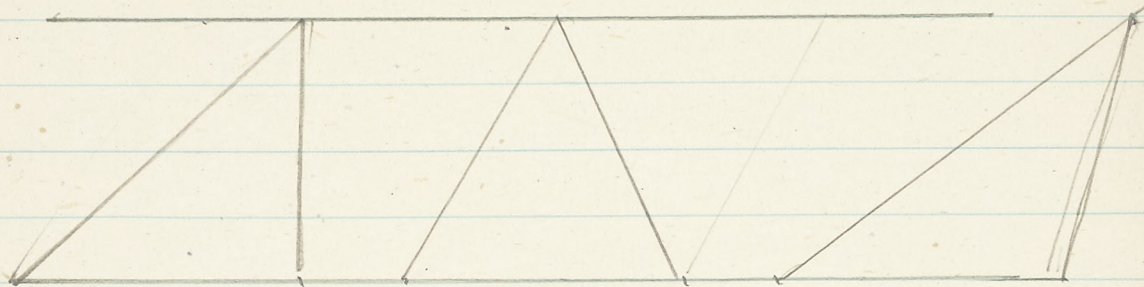
area of



Rhombus = rect. same ht x same base



$\Delta^s$  same base same height =



Refers to past proposition  
rhombus = rectangle

### Pythagoras

a)

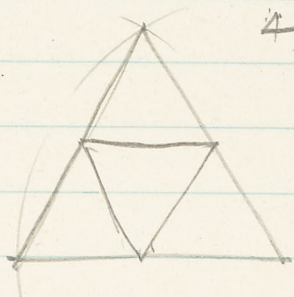
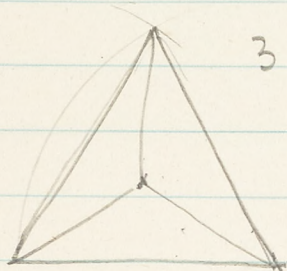
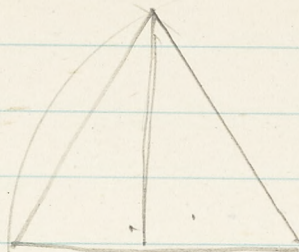
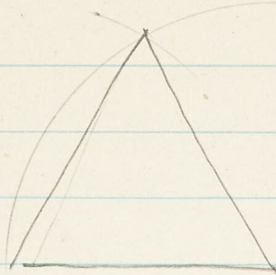
b)

c) General Case

### Depends on Two Intuitions

a) Quadrilaterals same base + altitude =

b) Things equal to same thing = each other  
(axiom)



Measure angles. + sides

all  $\Delta^s = 2$  rt angles

[ Cut out ]

Similar  $\Delta^s$  have equal angles.

Various correspondences

Inscribed + Circumscribed Figures

These

Circles + Squares.

# Montessori Principles

## and The Teaching of Religion

Introduction - The Goal.

Representative Men.

Aristotle; Julius Caesar; St Thomas;  
Shakespeare.

Montessori is such an One.

Takes time to reveal it.

The Focus of a New Movement. (Child)

Child in Society.

Examples. Welfare Circle Nursery Sch. etc

A New Age.-

Destruction & Reconstruction

The Child as a Constructive Factor in Society.

The Two Values.

Bees and Ants

So much by way of General Considerations

Religion of Course - The Essential

C. K. C. on Christendom.

Religion does not build on a Vacuum

Supernatural Order based on Natural

Grace builds on Nature



Montessori Movement not a Method of Ed<sup>n</sup> 2

A Spiritual Movement

Towards Liberty. — true liberty

Awaken to Soul of the C.

Releases inner, constructive, energies

It develops to the full Natural Faculties

Church cannot neglect

Will not neglect it

How does it develop the Nat. Faculties?

By removing obstructions

St Thomas. — definition

Independence —

Meaning of it.

Every useless and arrests development

Example "If you teach a child to write, you lay your hand upon his hand & guide it in the formation of the letters"

"If ~~the~~ you attempt to teach a child anything you support the attention.

You give it self-control: a freedom of will: you keep the mind of the child steady & intent upon what

it is doing".

30 years experience has disproved that  
 Mission has revealed a  
New Creed - a different Creed  
 Natural Faculties -

Order, Concentration, intelligent  
 activity; love of science, self-discipline

These are Natural Virtues.

Cannot deny them.

### Concourse of the Nat. Virtues (Harmon)

Is of immense importance

#### a) Outside to Church -

Such cultures open to the light  
 minds developed

intelligence active & indept

less likely to remain in

"Incurable Ignorance"

#### b) Inside the C

Bring a new vitality

Absorb Religion in a

more vital manner

(less heat rage)

L'Etat of Ref<sup>n</sup> in Religious Training

4

Emphasis on a Book

on Reading

on purely intellectual aspect.

Read C. in C. pp 27-28

In a word the history - page 4

The What is Presented by the Church  
The ~~great~~ great question then is  
How and  
why

St Paul Said :-

Markson much deeper -

Doctrine of S. Periods.

3 1/2 - 6. Sensory - motor

"Impara morendosi"

Child is an Absorber from the Environment

But absorbs.

morendosi.

all'averso l'attività

Linguistic Movement to new Things

Period X

→ Early Communism

Math lesson Begins Very Early

5

In a different way  
By movement.

E.g. Geometry } 4½  
Workbooks

So with Religion Begins at 3½ - 4

Not Give Instruction in Church  
Examples.

A Special Room for Religion  
Activities.

A Prepared Environment -  
For activities -  
learned thro. activities.

What it is not

- 1) Not a place to receive Relg. instr<sup>n</sup>
- 2) A place for carrying out certain activities
- 3) Learning tranquilly. own rhythm
- 4) Making certain cognitions by activity.

The Altar

Not a chapel - more than a room

Shed Beauty. - lights }  
forms. } all for Religious  
objects.

Everything in Enact for Devot.

Picture. Statues, Windows,

Experiment in Barcelona

A sort of natural preparation

A Preparation to a Preparation.

Examples -

Walking on line - candles, bells.

Arranging flowers.

Silent movement.

Silence Game.

C.m.-C page 7.

Age for Good Manners. lessons of G. & C.

S.P. for fixing S.M. actions

Love exactness

More than a Master of C.

So. at two time & place

"What remains is what we take"

Escherment in Barcelona

News or Actions.

Genflexions, Sign of C., Rising & moving  
scents. Carrying candles in Processions.

Other Parallels

Calam Tablets.

So Lilingical Calours.

Not a lecture -

The Lilingical Table -

tahkelath, vases, flowers

Hangings on the wall.

To a Specialization of what is done in M.S.

Raising it to Supernatural

Water Besari.

It is water sharp

Water so important in Economy

Pond - fish - Babynums.

Science Game (describe)

Voice calls

Intens recall

Voice of God.

Beque Prayer

The Bells

Gregorian music

The Beloved Disciple

Excerpt in Barcelona

Prayer for little ones

Two Parts.

Read 11-12

Doctrine

Commandments

On Stone. Statue of Moses

— ... a Command.

read 14-17.

Latin So a Preparation

3 years Novice

Living in the Church

Latin Stages

Objects + Names

Diagrams, Tables



Man of Palistine  
Call of Abraham

9

Composition - Natw Dame  
Catharism.

Little Boats. - Ind. Work

Tabernacle

Temple

Church.

History

---

Next Time

Marlerson Songs



Carrying Power of Water

opens up a huge vista  
River cause of the valleys!

Weather Study

Little Books - kinds of clouds.

Winds.

Points of Compass. - (Shadows)

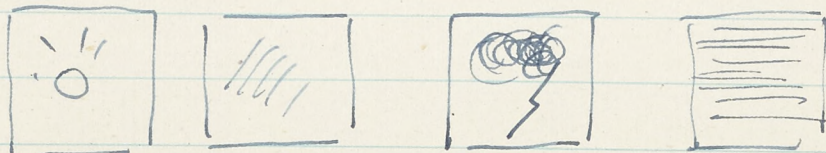
Pale Star.

Exercises on Cards.

+

- 1) Pt Comp to N
2. If wind came from W. which way would smoke go
- 3) Go 3 steps to N.E.

Symbol Pictures



Weather Diary.

## Running Water

Hard Salt Rock - waterfalls

Delta - Twin-lakes

Carrying Power of Water

ooooooooooooo oooooo - - - - -

The Key to Geology

to Past

Opens up a Huge Vista

Runs to Cause of the Valley

England & Cont. once joined

Alluvial Soil - (Egypt.) -

Fossils.

Key to Past (of History)

(M<sup>r</sup> Blakes Garden)

Physiography (Huxley & Guerin)

Contains - (models) (atlas)

Reading not Stage Memor. Marks

Fig - Saw Marks (warning)

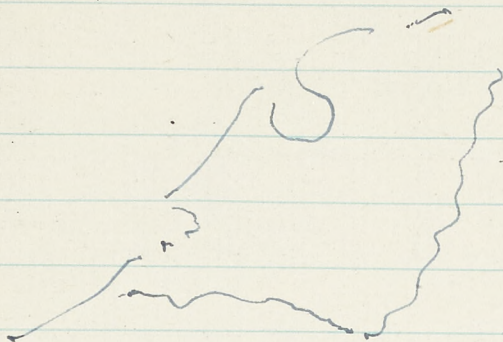
Examples.

Mountains - wooden

models (plaster)

Maps & Names

Fig - Saw Maps



Frontiers  
Boundaries

Slits

Box with Cards

Flags.

Names. - mls . mms , towns.

Combined with History - eg Palestine

Of Course Books. Examples.

Next Time. Higher Stage

Experiments

## Geography

Winds - Edinburgh

Palomus - waste time

"Madam to exhortate my 2. is d. n. n."

## New Stage

Sensory muscular surrounded

Reason. to motor

"Callegamento" { Flower in cranial  
of Fuchel. } Frances T.

Also Boy Scout Stage - going out  
sequin.

Sense of wonder  
Plato.

## This Air Invisible Blanket

a real thing.

powerful depends itself

Expt I Handkerchief

II Holding up

III Pouring

IV How High?

Siphon Expt

Pressure of air

Bicycle Pump

Tyre.

Room - doors

Weight of Air keeps it up

Bar & Egg Cup

Barometer.

Hot Air Rising

Dandelion.

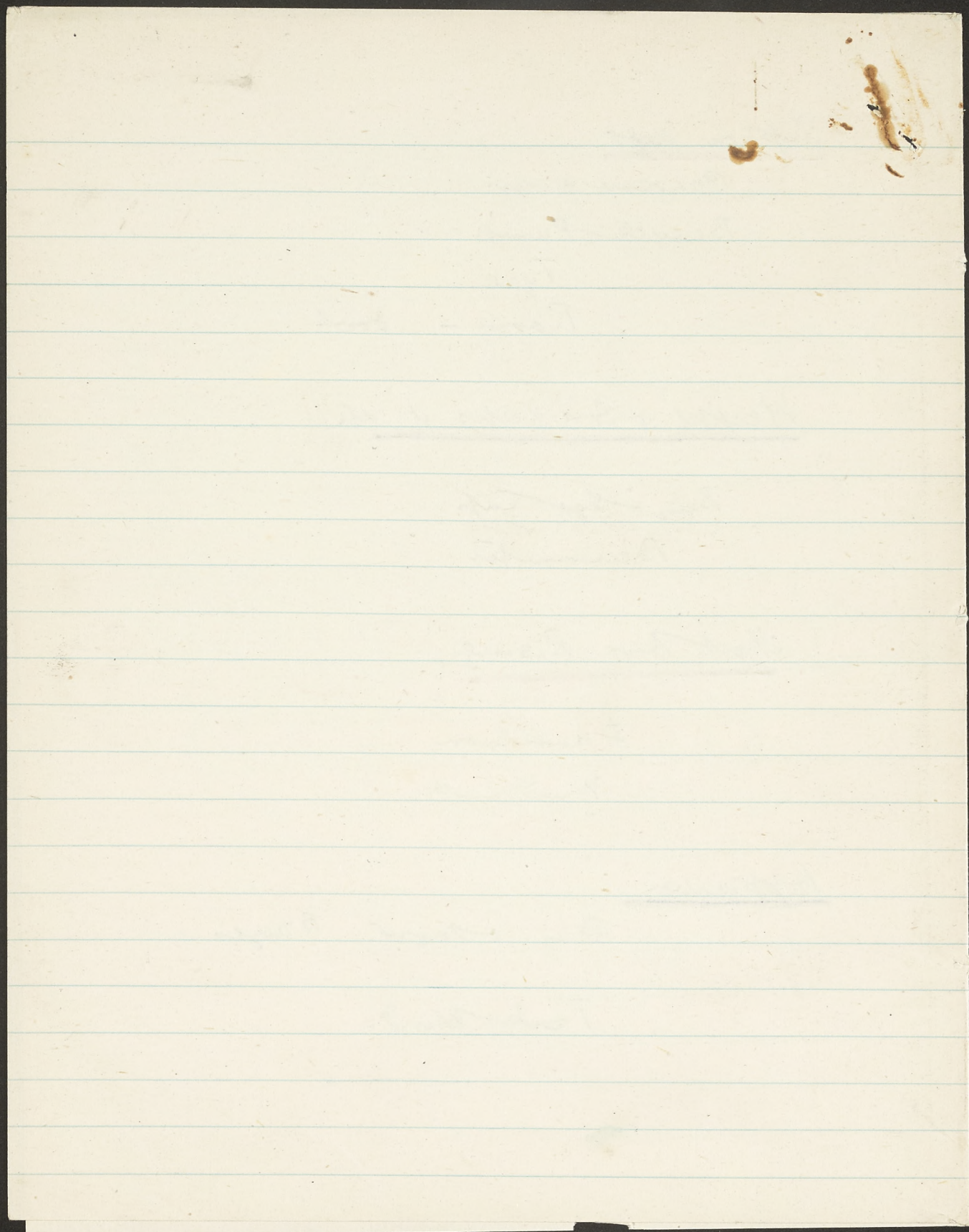
Windmill.

Apparatus

Day & Night Breezes

Trade Winds

---





# Advanced Geometry

## Principles

Read p. 252

"facultat c'is auto-ed<sup>n</sup> illis Ex. in Geometria"

Strengthens Reason

253

Acquires higher & clearer ideas

## Results in Abstraction

The Two Supports

253

Imagination?

## Designs

(a) in Paper

(b) Drawing - Ruler compass protractor  
et

Geometric Tables. Example

"one last doll & a box of compasses"

Reading aloud. - 299-30

## Artistic Designs

Examples 301 - 302

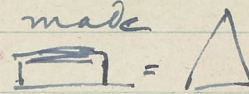
and Book

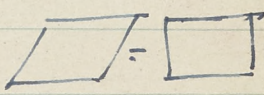
Combination of Geom. & artistic.

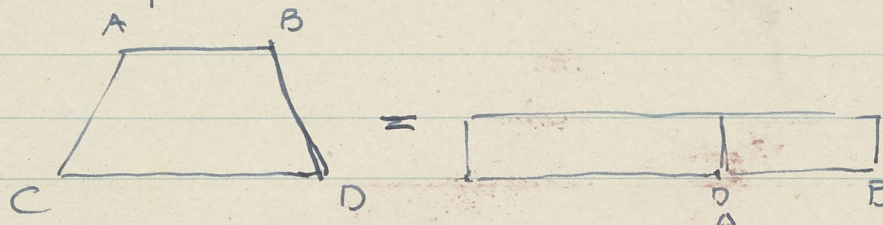
First Series Squares + Divided Figures  
 rectangles +  $\Delta^s$

Second Series Factors (Segments)

Third Series Problems with Equivalent Figures  
 (in comp. conn.)

① To Show a  $\Delta =$  1/2 rectangle made  
 of base  $\times \frac{1}{2}$  height. 

② To Show that a rhombus =  
 rectangle with side  $\times$  height 

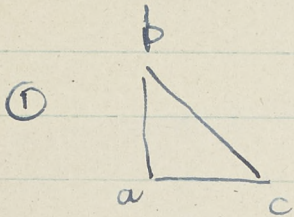
③ Trapezoid  


④ Area of a Decagon =  $\frac{1}{2}$  perimeter  $\times$  height.

⑤ Triangles with same base + altitude are =

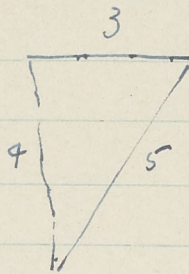
# Pythagoras

3 Cases



$$= ab = bc$$

②



③ General

## Fourth Series

Division of Triangles

## Fifth Series

Inscribed + Concentric Figures

Same as before

+ Squares + Circles.

Money Sums

Weights &amp; Measures 1

Income.

Stamp Game 2

Cuba Root

GeographyLand Forms

Fig - Saw Maps. (Asia) 3

Other Maps.

Circulation of Winds1 Expt Stator (Water) 4

2 Store.

3 Bezahl Pump.

4 Circulation

5 Syphon . Wind System

1) Trade Winds 5

2) Day &amp; Night

(Columbus)

Currents of Ocean.

Monsoons

Globe.

Shorne Photos — M. Lantim . 7

Literature 8

Music 2

History

Revision

Science 6

Some Sub of Science

Examples.

Magnet. films

Compass make

Magnus Compass.

Points of Compass.

How to use.

---

Pin hole Camera

Lens.

Sound.

10

## Epochs of Development

0 - 12 Individual -

Development of function

Independence

12 - on Social Devel - Personality

---

0 - 6. Prevalence of Physical Devel

Sensory-motor . impulse to movement

6 - 12 Prevalence of Intellect<sup>e</sup> Devel

---

---

## Prep<sup>o</sup> Environment

Furniture.

Materials for Purposeful Activities

Sensory Material.

passing up to —

---

Ordered activity - leading to

Independence.

Sense Training

## Incarnation of Man

Ex of R L de

- 1) ~~Control~~ Care of Spirit
- 2) ——— person
- 3) Social relations
- 4) Control of Movement.

Line.

Silence game

Music.



## Order

Elimination of Unnecessaries

Limitation of Materials

Place for everything

Cleanliness in room & materials

Ex of P. Life.

## Control of Error

light weight

colour

fragile. (Punch)

---

## Examples

Pouring Rice

Washing hands

Folding cloths (line)

Carrying chairs & tables

laying tables

(motive for perfection)

Doors.

Keys & Cupboards.

Flowers + Seasons Vases.

Social Relations Ex of G+Cambs

Bowing . shaking hands  
Offering something to another  
Inviting in a visitor. -

"will you take a seat"

Making way for someone to pass

Picking up a fallen object.

Selling not a mistake

Accompany another

Begging pardon

Passing without disturbance

Waiting - - - -

Blowing nose.

Avoiding touching people

Walking on the Line

Silent Game

## Literature

Shakespeare.

Chaucer - Stories

Don Quixote.

King Arthur.

## Myths Greek Myths

Something mysterious about them

Corresponds to something deep

in our nature

Ancient racial memories.

Eg. Apollo - Phaeton.

~~Daphne~~. Clytie

Daphne.

Arachne. \_\_\_\_\_

## Literature (Contd.) Poetry

Zone all know. Ch. love poetry  
Nursery Rhymes.

School method. used

- 1) Cards.
- 2) Books
- 3) Reading aloud.
- 4) Concerts.

Onomatopoeia

A Deeper Understanding

Too to Masses p 375.

Slides a) Counting Lines in a Stanza

Couplet

Quatrain

Octave etc

b) Rhymes

a) Coloured Pencils

b) ab, ab, cc etc

② Rhythm

Tonic accents.

Read page 377

Tar-ta-ti

Verse - Turn.

Material 1) Sheets copied out

2) Cards with signs.

Trimeter, Tetrameter, Pentameter  
Hexameter, Heptameter, Octameter

English Poetry + Feet

lamb

between

trochee

fáther

anapest

~~disrupt~~ disrepu<sup>l</sup>le

dady!

wínd<sup>l</sup>ful

---

The Bay in Puff

~~Pone Liget~~

Quadra pedentarm 3 milu quat. ungula.

Involvens umbra magnaque  
carumque

Dice declange gemlaru raro 442.

By the margin willow valed

Slide to many barges trailed

By slow horses - an unharled

The shallah flibbith silken sailed

Skimming down to Camelot

The fair to urge to lew, horse from flew

The furrow followed free

We were the best . . .

## Multiplication

Activity method.

3 children  
2 swats each.

Unnecessary components

Give

1) activity (individual)	}	enough.
2) cleaners		
3) discovery.		
4) achievement.		

A Few Examples from life - if you like

3 bus tickets	at	4. <sup>00</sup>
4 rent. ..	at	5. <sup>00</sup>

But to Process. 2 times.

- 1) The Paper.
- 2) Board
- 3) Discs.
- 4) match.

A Point of Contact

Next Table ?

Keep "Mr Tables"

B+C. July 17<sup>th</sup>

(t+u)<sup>2</sup> =

t <sup>2</sup>	ut
tu	u <sup>2</sup>

②

~~Color~~ Colour In.



③

Digits.

10,24

x x x	x x
x x x	x x
x x x	x x
x x x	o o
x x x	o o

729






---

Take 900.

---

$$a + b + c =$$

$$h + t + u =$$

$h^2$	$ht$	$hu$
$ht$	$t^2$	$tu$
$hu$	$tu$	$u^2$

Faint, illegible handwriting at the top of the page, possibly a header or title.

Top

$$= 2 + 2 + 2$$

$$= 2 + 2 + 2$$

Same in Colour

h	t	u	
h	ht	hu	h
ht	t	tu	t
hu	tu	u	u

Diagonal Squares u-h. Top.

$\sqrt{105625}$

$\sqrt{123201}$



1



0



5



6



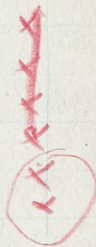
2

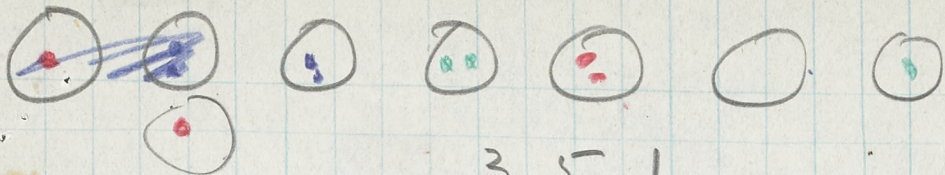


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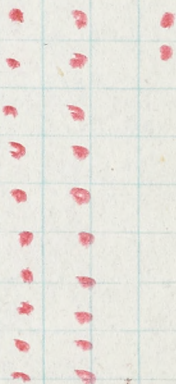
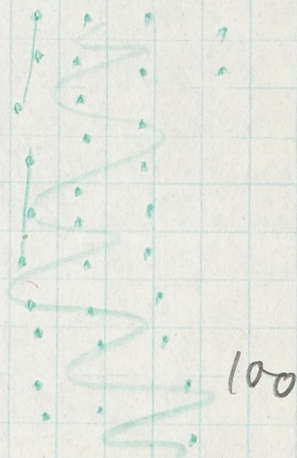
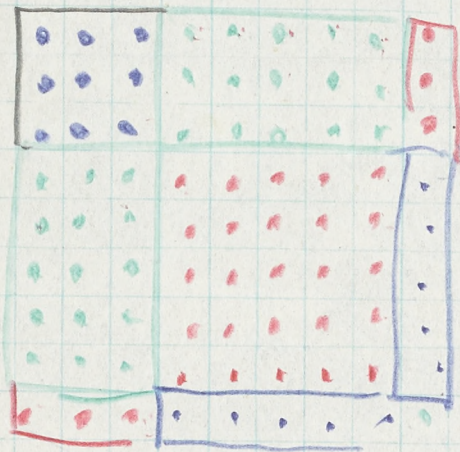
3600





$$\begin{array}{r} 3 \ 5 \ 1 \\ \underline{3 \ 5 \ 1} \end{array}$$

$$\begin{array}{r} 3 \ 5 \ 1 \\ 1 \cancel{7} \ 5 \ 5 \\ \underline{1053} \\ 12\cancel{2} \ 2 \ .0 \ 1 \end{array}$$



t<sup>2</sup>

4t x


$$\begin{array}{r} 576 \ 24 \\ \underline{2} \\ 4 \ ) \ 176 \\ \underline{16} \\ 160 \end{array}$$

h

t

w

<del>h<sup>2</sup></del> h <sup>2</sup> 6000	ht 6000	hw 800
ht 6000	t <sup>2</sup> 900	tw 120
hw 800	tw 120	w <sup>2</sup>

$$\begin{array}{r} 234 \\ \underline{234} \\ 936 \\ 702 \\ \underline{468} \\ 54756 \end{array}$$

200

30

4

4

=

800

120

16

230

230

69

46

529

200

30

4

30

6000

900

120

200

30

4

200

40,000

6000

800

32  
32

27  
27  

---

189  
54  

---

729

# Revision

(1)

Various  $X^n$  "Games"

Last one Piles of Nro

Introd<sup>n</sup> to Factors

✓ Already seen it in "Shaming"

Parallel Exercises

Friends of Nro p 178

No water-light components

No lineal order

Exploration - discover - interest.

1) Concrete

2) actual

3) individual exploration.



Divisibility of Nos  
Factors  
Prime Numbers.

(2)

No Such names

To Experience first.  
v. young

Then 16 definitions.

Baby born — then named!

Expt Take 12.

Then 24.

Then 36

Then Find Highest C. Factor

Prime Nos.

Systematically

- 1
- 2
- 3
- 4            2x2
- 5
- 6            2x3            3x2
- 7
- 8            2x4            4x2
- 9            3x3.
- 10 etc.                            etc

7th Game

Square paper

- Make
- 2x6.
  - 4x4
  - 3x10
  - 5x2
  - 3x3

Rectangles and Squares

Operate

Write down no  
without counting  
 (avoid error)

## Study on Squares

(a)

(4)

Make them.

+

Write out —

Cut out.

---

## Study of Squares

Make em "growing" —

$$\text{Then see. } 3^2 - 2^2 = 5$$

$$4^2 - 3^2 = 7$$

etc

go on — do it

& find out

the

Law

## Philips Law

$$(n+2)^2 - (n+1)^2 = (n+1)^2 - (n^2) + 2$$

---

# Fractions (Vulgar) 1

## Introduction

Division with Integers

"Biscuits"  $10 \div 2$

~~Only 1 Biscuit.~~

Only 1 Thing — Success  
Total.

Too far it.

But a Biscuit or cake or choc

Break it.

Do so — unequally

Not Fair

Must Be equal

If 4 people

4 equal parts

3 people 3 equal parts  
= marzipan (12) Paper 900 (16)

Must always be equal? (2)

Yes.

One Exception

If you divided 50  
Each would get as much.

Impossible.

With man

Not with God.

The Blessed Sacrament

Corpus Christi

St Thomas

Says

Fracto sacramento

When you break the Host in  
twain do not doubt that  
in each part remains  
what was whole before

This a miracle

Fracto sacramento

3

Fracture

Fraction

Fractum (Lat.) = Broken.

fract o

fract ure

fract ion

So when a single thing - unit -  
is broken into equal parts  
you get fractions

Examples

Plasticine

Chocolate

Paper.

match

"Share & share alike"

# Metal Material

4

Show it -



1 2 3 4 ..... 10 Equal parts

Must we stop there?

Could we go on.

Yes?

How far?

## Atoms

Come Back To Study our Examples

Names

halves

ninths

thirds

Tenths

fourths (qu)

fifths

elevenths

twelfths

sixths

twentieths

sevenths

eighths

Practice

Practice

Give out  
names

5

Get me

one fifth.

2 ninths

etc

(A)

How to write Fractions (Board - E.g.)

Diagram

Two things to show -

a) what they are - names -  
halves, tenths, hundredths etc

b) How many taken.

Show Diagram

Give out slips (a)  $\frac{1}{10}$   $\frac{1}{5}$   $\frac{1}{7}$  etc

Give out slips (b)  $\frac{2}{5}$  etc.

Example

Divide up Circles + write

Give out.



$$\begin{array}{r} 52 \\ 364 \end{array}$$

$$\begin{array}{r} 182 \\ 13 \end{array}$$

$$\begin{array}{r} 234 \\ 176 \\ \hline 1404 \\ 1638 \\ 234 \\ \hline 41184 \end{array}$$

$$\begin{array}{r} 52 \\ 7 \\ \hline 364 \\ 26 \end{array}$$

$$\begin{array}{r} 26 \\ 15 \\ \hline 130 \\ 26 \\ \hline 390 \end{array}$$

# Fracturis

8

"A fracture"

Equal parts

Divide Percent  
into

2

or 4 parts

Equal

---

adverts eg.

Application - Conclusion | p 41

43

Resumé

Fear of being up

46

min. labels

Steps in Time

46

Appendix

47

Resumé'

(48)

Nov. 9<sup>th</sup> Teaching Notes I 48

Importance of Preparation in Life

Not the actual crisis

What leads up to it.

War : business : everything.

Organize yr resources.

So In Teaching

Two kinds of Preparation

a) The General Course

b) The Person - Unit.

More to Person Unit - but still  
Other important.

Say 4 lessons in History or N. Study (!!)

1) Connect up with previous knowledge

2) A general Proposition

3) Gives Time to look ahead

4) Arrange correlation -

(Project) museum

5) Time for "Summing"

6) Age

Social life in M. Ages

Travelling

Amusements

Edn.

Military - Chivalry

Monasticism

City life

The Castle (Feudalism)

Costumes

Which are your games to choose?

- 1) Popular Beliefs
- 2) Interest.
- 3) Age and Sex.
- 4) Materials to hand.

Also: —

- 5) Do you take in handbooks
- 6) In literature —
- 7) In Religion

Travelling

So different

Chaucer's PilgrimsFalstaff. at Godshill

Pilgrims in M. Ages.

Monastery Diagram. — names (sketch)

transport factor. — the monks

Schools

Farms

## Suppression of

3

### Chivalry (Cheval)

Etymology Knight.

Page: Square: ~~Squire~~ <sup>Vigil.</sup> Knight.

Examples - Geoffrey de Baulhan

King Louis (St)

Rich. c. d. lion

Tempsans. Idylls

---

### The Lesson Unit

See Diagram

### The Sherburnian Steps

Preparation

Presentation

Association

Generalization

Application.

A great man -

Too pure intellectual

also skills + aesthetics.

OT.O

Aim Clarity. Precision. 4  
Remarks. "Develop vocabulary"  
Poem. -

or To Teach use of Inverted Commas

or. ~~Be~~ Normal Context.

or. The angle in sum. is a 90° angle

or. The first intro<sup>n</sup> to Lane's Devine  
or Life-history of a Frog.

---

## Sometimes Nothing New

Eg. We will go on with  
exercises in areas  
or. perimeters

Simply consolidating ~~new~~  
to ground of last lesson.

Go on with Julius Caesar

Act III Scene II.

But even there (not straight in)

Class. 2  
III C. 40.

Av. age  
8-9.

(5)

This is very important

especially for the Inspector

You may have prepared an  
excellent lesson for 8yr. olds  
and  
a bad one for 6years.

or vice-versa

### Introduction

1) " The new name seen same  
day

2) Avez que petit

stir up to mind to receive

expectant state

attend. — ~~low~~ stretch

(6)

Reception Committee

eg Preparing Mud. Kuno Vii  
Shakespeare Play

Characters..

"Toby's Plat"

Questions (skh)

or

Verbally

Preparatory Map on Board

(getting to work  
at me)

"Gather together strands of last lesson

or

Prepare for New Subject

Eg Life Stories of Frog

Get a frog.

picture

"Ever seen me

caught me

Baby frog?

arent Poane as Babies

Frog Spawer

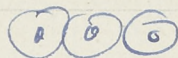


When did you see it?

6

In water

What like.



Why??

Why in water & not on land?

Why in jelly

a) warmth — of Sun?

b) protection

to fishes

Then go on — to next stage

Development

There 10 important things is  
how you are going to  
proceed.

Remember

1) ~~to~~ Disublime

2) Invention.

So By Questions if possible

Or by eschering

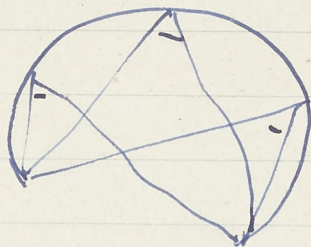
7

Value of materials  $\rightarrow$   
Individual work.

E.g. Three angles of a  $\triangle$

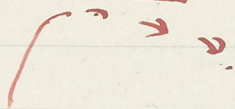
The rest.  $\square = \triangle$

Don't tell them



E.g. William at Hastings

The arrows



What must you have done?

Wellington at Austerlitz

