

10-16-1858

## John Willson Phila. Pa. Jefferson College Medical Clinic Notes

John Willson

David B. Willson

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John Willson

Phil<sup>ca</sup>  
Pa.

Pa.

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David

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David B. WILSON

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down to 12 in  
circum

Proper

John Wilson

Jeis

Medical

College

Oct 14th 1858

John B. Wilson

Mechanics pages, 1, Jackson 17, 49, 81, 86,

25, 29, 61, 63, 81, 93,

Heat, 6, 19, 24, 31, 50,

Allen <sup>10</sup> Proprietor, 24, 27, 29, 38, 58  
65, 74, 84, 91, 94,

67,

Kendall, 12, ~~24~~, 41, 78,  
96,

Allen price, 87,

Engle,

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Cresson,

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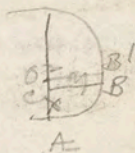
Benson,

Shew,

Bredin,

W. Jones,

Patterson



Angular

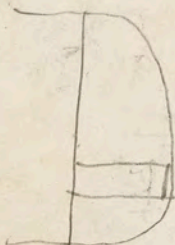
$$AO = h$$

$$AB = s$$

$$dx = \frac{x ds}{y}$$

$$B B' = ds$$

$$B D = dy$$



$$r', y', ds', dx$$

Jefferson College  
Medical Clinic

Oct. 16th 1858

By Jackson

1. Michael Jensen.

hepatic disease

complained of pain on right side of ribs, much  
less than he was, tongue a little red, before  
was pretty nearly right. Treatment before was,  
Colonic 1/4 gr. 2 or 3 times a day, morning & evening,  
2 gr. Iodine powder, & 2 grs. Chalk. Leave him a  
few days without any medicines, if he continues  
to get better, if not, same treatment.

2.

Do not see, but  
is dumb in his hand, no paralytic, but  
entirely dumb, been deaf than before (such  
symptoms ought not to be disregarded, they are a warning,  
sometimes an finger is half dead, side of the face has no  
feeling, something wrong at the central organ) a case  
of mixed congestion & indigestion, tongue a little  
reddish & warm more on one side than another.

If anything is the matter with the brain, or spine on  
one side, the manifestations as a general rule  
are on the other, with few exceptions. It has a slow pulse  
irregular. Pulse can be frequent, without being quick.  
Treatment, Cathartic. <sup>Preparation</sup> Rhubarb,  
Calomel, 2 grs of aloes, every day until it oper-  
ates, & then stop. If he has headache, apply wet  
towels, eat no meat.

3. Nurry, <sup>epigastric</sup> 3. Been sick 4 months,  
pains over the region ~~of the chest~~, coughs ~~but~~  
pains when she has a fever, has chills, Chills  
bring on cough, pulse regular, Tongue very  
morbid, red, shortness of breath, <sup>or weak</sup> Probably  
a pulmonary affection, feet swollen, come  
Prescription cod liver oil during the  
day + 5 grs Dover's powder at night

# Surgical Clinic

by Prof. Gross

Two cases of Club-foot. A child, under  
the Indian method by subcutaneous opera-  
tion. Operation over, apply an adhesive plaster,  
Keepon legs diet for a few days, and keep  
quiet, and then let her walk about. Intro-  
duce about  $\frac{1}{2}$  to  $\frac{3}{4}$  inch above the junction  
with the calcaneum. Separate by a gentle  
sawing motion. A gap is left large  
enough to admit 2 fingers.

2. Club-foot, called Tarsus, shortening of the  
Achilles, which came as other one, in both feet.  
Apply club-foot apparatus; ~~shorten the~~ <sup>of short foot</sup> ~~tract~~  
table under Achilles. <sup>new method</sup> ~~shorten~~ ~~the~~  
apply the Apparatus. Introduce ~~the~~ <sup>uplid</sup> ~~the~~  
new at superior extremity of the ~~calcaneum~~  
3: ~~Tarsus~~ <sup>uplid</sup> ~~the~~ <sup>rod</sup> ~~at~~ ~~the~~  
movable, skin a little more red than other skin, no pain



obscure  
divine  
must  
to get  
of the  
exp

4. Your agent about 8 pairs of eggs. I seen  
affected about 2 or 3. The  
of the  
with the  
decreased.

5. A man with 2 tumors (Polypoid) one  
in each nostril. They  
they are only in the  
after being once  
and generally do. Operation is to introduce  
a pair of long sharp + delicate forceps, catch  
hold, twist the tumor off instead of pull  
ing it out, as that would be likely for bring  
the bone out. Be careful to twist it out.

Tuesday Oct. 18.

Gibbon's Lecture

In teaching practice of medicine we teach to discern.  
When the patient before his art is perfectly well, according  
to the age, it is called the absence of disease. Disease is  
according to Huxley, a change of an individual, a  
change from his normal state, a change towards  
the worse. When the change is not progressive  
the natural history of disease is not applicable. The  
history of diseases in special pathology. I shall  
classify the subjects by organs, i.e. to discern, and  
to distinguish between diseases. Take notice of the  
fact that the disease is not the same in all  
as Asthma affects the respiratory organs, although  
it has an effect on the functions of the body.  
2<sup>d</sup>. In every disease. In order to do this  
the physician must know the cause of it.  
1<sup>st</sup> to prevent, inquire into the cause of  
causation. Disruption of nerves and  
of vessels, under certain circumstances, may  
be the cause. Although in themselves  
non-vent

There are special causes of diseases in some  
regions, which are bounded by certain geographical  
boundaries, such as the febrile paludism  
in Poland. Over many parts of the world we  
have malarial, of which the cause is <sup>known</sup> ~~unknown~~  
These are called epidemics. Then there are  
epidemics, diseases that got unknown, the  
most remarkable of these is influenza, as an  
invasion of this will increase the mortality  
of a place in a year very much. We may  
trace the users of this disease when we  
know about it, when we know the cause  
to contract. Then there is Yellow Fever,  
cholera. Thus we speak of Hygiene.  
4th part, the cure of these diseases:  
There

# Lecture

Monday Oct. 18. 1858 By G. Ross

Left Book dried Modern Surgery

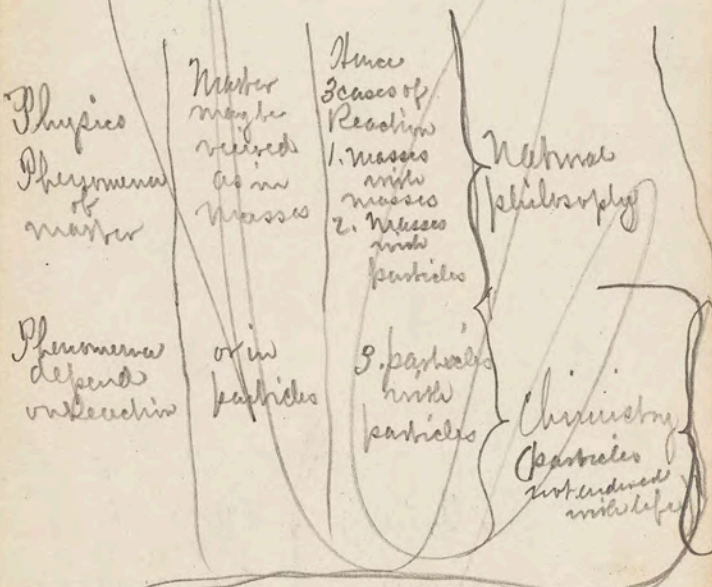
Ernie's on Art & Mechanic Surgery

Prof. Ferguson's

Apoplexions, Nearly all the diseases that occur in the world are the effects of inflammation. The little principle in the circumference has as much. Inflammation is considered healthy when it is reparative. Inflammation is likely to occur in all parts of the body except the epidermis, mucous lining. It is owing to the part that that has in the functions of the body. Those like hair epidermis to an extent. This is perceived about the part where it takes place. It has various forms - acute, hectic, & indolent chronic, latent or

acute when it runs rapidly through the  
 stages of existence. Chronic is when there  
 is very little manifestation in its  
 coming on or progress.

Lecture by  
 Monday Oct 18. 58 <sup>18</sup> Rache Chemistry



one kind of matter - of particles

Imponderable elements

weights

Another  
kind of  
particles.  
having  
weights

Ponderable  
Elements  
65

Physics  
phenomena  
of  
matter

Matter  
may be  
viewed  
as in  
masses

3 c.  
Re  
in  
2. n  
not  
po

Thermonas  
dependon  
Reaction

or in  
particles

3 Pa  
n  
po

Physics is the science which investigates the phenomena  
induced by the action of  
the power that matter has over matter is called  
Reaction, mutual action. When we view  
matter, it is sometimes viewed as particles held  
together and composing masses, at other  
times we view the minute parts, called  
particles. On this ground there have been  
3 cases of Reaction, 1. Reaction of masses  
with masses, 2. masses with particles, 3.  
particles with particles. The 1st 2 cases of  
reaction belong to natural philosophy  
while the reaction of particles with parti-  
cles relate to chemistry. The particles  
with which chemists have to deal are  
those without life, those belonging to <sup>the</sup> physics  
Chemistry is that science which  
investigates the reaction arising  
out of particles with particles, bearing  
out the living particles.



The familiar example is the billiard ball  
striking another one. One's image in a  
looking glass is reaction of masses with  
particles. Dissolving sugar in tea is a  
reaction of particles with particles. In  
a mathematical sense matter is divisible  
without a limit, but according to  
my opinion, particles are indivisible to  
a chemical view. The non-essential prop-  
ties are opacity, ~~transparency~~, colour,  
which are all relative to the impervious  
called light. There are also porosity,  
which implies the compressibility, out  
of this, comes, expansibility, which  
brings in, elasticity. The ways in  
which matter is united in the material  
world by attraction, & there there is an  
action which tends to burst them  
apart which is called repulsion.

Chemistry. Modes of the action  
drawn forth by the attractive & repulsive

Particles may further divided into  
4 imponderables, light, heat, magnetism

imponderables are not easily subdivided,  
ponderables are divided into 13 non  
metallic, 52 metallic, nonmetallic  
composites, 3 Gases, 3 — 4. 3, Solids  
Wood, stone, Iron.

If there are 2 kinds of particles, come  
together at the 2 kinds of reaction included  
at the same time. It is also good to think  
so. We must believe that the attraction <sup>as frequently</sup> & repulsion <sup>is</sup>  
is imponderable

That Chemistry is the science which  
investigate the <sup>properties</sup> which arise out of the  
attraction of ponderables & repulsion of  
imponderables

Lecture by  
Monday, Oct. 18. 1858 Paracelsus  
Anatomy

Annual Matter	32.17
Plus of Dinner	51.54
Cost. . . .	11.30

$\frac{1}{3}$  is <sup>animal</sup> ~~earthly~~  $\frac{2}{3}$  is earthly matter. this is  
the general composition, and about all  
that is necessary to recollect.

Lecture by  
Oct. 18. 1858 Prof. Meigs

## Lecture

Monday Oct. 18. 1838.

by Prof Meigs

The Os Sacrum called so because the ancients used to think that an immortal bone was placed there called Os Luz, which they thought was indestructible. It ought to be 4 inches long, 4 inches wide. If you draw a triangle equilateral 4 inches each way, you can draw an os sacrum in it. If it 5 inches long it is too long, if 3 inches it is too short, and difficulties arise in each case. There are 2 basins in the pelvis, the superior & inferior. The front of the pelvis is made of muscles, which make a soft place for the child to lie against when the woman walks. The length is 5", the sacrum 4 the coccyx  $\frac{1}{2}$  which makes  $5\frac{1}{2}$  in all.

The extreme width should be  $4\frac{1}{2}$  inches because  
a child's head from side to side is  $3\frac{8}{16}$

The right place for protraction is  $\frac{1}{2}$  inch below  
the ~~hair~~ <sup>hair</sup> ~~line~~ <sup>line</sup> of the  
that ~~is~~ <sup>is</sup> ~~the~~ <sup>the</sup> ~~point~~ <sup>point</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~hair~~ <sup>hair</sup> ~~line~~ <sup>line</sup>.

Dunghison  
Oct 18. 1858 Monday  
Jackson

Tuesday Oct. 19th 1858 Practice of medicine

A normal action of all the functions of the parts is what  
is generally taught, health. We have over mechanical  
manifestations. ~~Chimical~~ <sup>Chimical</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~st,~~ <sup>st,</sup> ~~a~~ <sup>a  
secret ~~one~~ <sup>one</sup> ~~is~~ <sup>is</sup> ~~the~~ <sup>the</sup> ~~clot~~ <sup>clot</sup> ~~formed~~ <sup>formed</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~blood~~ <sup>blood</sup> ~~deposits~~ <sup>deposits</sup> ~~of~~ <sup>of</sup>  
the ~~end~~ <sup>end</sup> ~~a~~ <sup>a</sup> ~~variety~~ <sup>variety</sup> ~~of~~ <sup>of</sup> ~~indurations~~ <sup>indurations</sup> ~~or~~ <sup>or</sup> ~~formings~~ <sup>formings</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~end~~ <sup>end</sup>  
sensitivity of the veins ~~disordered~~ <sup>disordered</sup> ~~but~~ <sup>but</sup> ~~not~~ <sup>not</sup> ~~all~~ <sup>all</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~disease~~ <sup>disease</sup> ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~kidney~~ <sup>kidney</sup> ~~but~~ <sup>but</sup> ~~we~~ <sup>we</sup>  
have ~~where~~ <sup>where</sup> ~~we~~ <sup>we</sup> ~~may~~ <sup>may</sup> ~~find~~ <sup>find</sup> ~~that~~ <sup>that</sup> ~~do~~ <sup>do</sup> ~~not~~ <sup>not</sup> ~~account~~ <sup>account</sup> ~~at~~ <sup>at</sup> ~~all~~ <sup>all</sup> ~~to~~ <sup>to</sup> ~~the~~ <sup>the</sup> ~~disease~~ <sup>disease</sup>  
that ~~you~~ <sup>you</sup> ~~ought~~ <sup>ought</sup> ~~to~~ <sup>to</sup> ~~observe~~ <sup>observe</sup> ~~that~~ <sup>that</sup> ~~there~~ <sup>there</sup> ~~is~~ <sup>is</sup> ~~always~~ <sup>always</sup>  
of ~~action~~ <sup>of action</sup>.  
perussion ~~or~~ <sup>or</sup> ~~change~~ <sup>change</sup> ~~in~~ <sup>in</sup> ~~the~~ <sup>the</sup> ~~disease~~ <sup>disease</sup>. There ~~cannot~~ <sup>cannot</sup>  
be ~~some~~ <sup>some</sup> ~~cause~~ <sup>cause</sup> ~~for~~ <sup>for</sup> ~~disease~~ <sup>disease</sup> ~~they~~ <sup>they</sup> ~~are~~ <sup>are</sup> ~~spontaneous~~ <sup>spontaneous</sup>  
diseases ~~depend~~ <sup>depend</sup> ~~on~~ <sup>on</sup> ~~causes~~ <sup>causes</sup> ~~from~~ <sup>from</sup> ~~with~~ <sup>with</sup> ~~ingest~~ <sup>ingest</sup>.  
Causes are divided into 2 important parts.</sup>

Causes are divided into 2 important parts,

predisposing & specific or incidental. Incidental  
 depends ~~on~~ predisposing cause. Specific are both  
 predisposing & exciting. Predisposing causes are  
 passive. A Predisposes implies Prod. cause. Sleep  
 is a good example. Malariæ fever very seldom occurs  
 during sleep. There are many diseases which concern  
 sleep. In this case sleep is a pred. ~~state~~. Hereditary  
 predisposition is a passive cause. Less of  
 disease. They may be in solid or <sup>in both</sup> fluids. Taken  
 perfectly healthy person subject him to changes.  
 they would first be Diarrhoea, but no human  
 body could be found in a state of perfect health  
 so that is not right theoretically, although right  
 theoretically.

Lecture

Oct. 19, 1858

by Gross

# Lecture

Oct. 19, 1858

Gross Surgery

Inflammation <sup>or unhealthy</sup> healthy with reference to the local or constitution, healthy, when it tends to the reparation of the part affected, otherwise unhealthy. In an incision when the constitution is healthy, we bring the parts nicely together, & the parts will be filled in between by a plastic matter, which will run by means of inflammation, but if unhealthy the parts will never heal, but the inflammation is not abated. It is either common or specific. Every person is subject to the former, but there is a certain set which certain individuals are subject to, which is called specific. There is a peculiar poison called Syphilis, from which a specific inflammation takes place. When we apply this by inoculation it spreads over the whole body differing from common inflammation. Insect poison <sup>is</sup> another

class of specific inflammation. Also when the

class of specific inflammation, also when the  
man thro' blows a dead animal. It is not always  
visible, but latent. Many of the nervous diseases have  
their origin in this form, which is sometimes  
inflammation of the lungs, which is un-  
attended with pain & difficulty of breathing.  
Local phenomena, which are most important  
Redness or discoloration of the part. Varies in its  
degree & its character. In degree from the  
Redness to the most intense fiery color. In  
the character of that degree. The symptoms  
in that part, are, swelling, heat, & increased color.  
The discoloration varies in character, viz, blue, violent  
pain, it is situated in the sclerotics, conjunctiva  
sclerotics. Redness is not always present, only  
when there is the presence of much blood. <sup>There is</sup> In  
Anthrax, Erysipelas, even when the inflammation is very  
intense there is no redness. Discoloration is an  
involuntary effect of the vessels with the  
vessels of the aff. parts.

Function. Inflamm. can scarcely exist.



without this phenomenon. It is <sup>not</sup> produced by the diffusion of some foreign fluids, Serum, gelatinous matter, blood, &c.

Heat This is present in a great degree in all inflammations in the lungs, spleen, &c. The heat of the part does not transcend the bounds of the part &c.

Discharge of

Oct. 19. 1858 By Professor Chemistry

1st. Repulsion. and Imponderables 2nd.

Attraction 4th. Roundness, the particles of which are acted upon by attraction

Repulsion. 2 particles of heat & 2 particles of light repel, but, probably, 1 particle of light & 1 particle of heat or light attract. <sup>in the medium</sup> Thus

Imponderables, light, heat, electricity &

Magnetism. leave the 1st out.

They come by heat. <sup>one</sup> 1st. I shall speak of <sup>what puts it into</sup> motion. 2. Ways of measuring of the heat of equilibrium. 3. In what

proportion the heat enters into <sup>the</sup> <sup>solid</sup>

proportion the heat, <sup>enters into the</sup> <sup>ponderable</sup> <sup>different</sup>  
bodies. 4. Changes in <sup>the</sup> bodies by the  
caloric. 5. Different instruments by  
which we feel its intensity.

What puts it into motion, is any cause  
whether <sup>of the ponderable</sup> ~~changes~~ the capacity for  
heat, or caloric. It is the dose <sup>of the ponderable</sup> which  
is the proportion which each ponderable takes  
ponderable matters of different  
sort have different attraction  
for heat.

Proton of Caloric, depends on decrease  
of capacity. Arranged under 2 heads.

1. Condensation. 2. Ohmic change.

Take a piston, insert a piece of tin & insert  
into a tube with air, and by rapid condensa-  
tion, you drive the caloric out, and set  
the tinider <sup>of</sup> fire.

Just as you increase the capacity of ponder-  
ble. 1. Dilution, the opposite of  
condensation.



Fructus

U U U

U U U U U

W W W W

W W W W

W W

W W W

S S S S S

S S S S S S S

U U U U U

U U U

Elementis

S S S

S S S

S S S

14th Oct. 1898

Hospital Case

14th Oct. 1898 Medical  
Dr. Girard, a case of ~~epidemic~~  
measles

Measles  
Hospital Case  
Medical Clinic

Dr. Girard  
14th Oct. 1898  
26. years old male  
(Annex) ~~with~~ when nursing, pains just out  
of my (left) side (upper abdominal region). With this the  
~~temperature~~ ~~was~~ ~~normal~~. No other signs, such as  
fever, stomach, back, or joints. In the  
small intestine, stools get to be more con-  
stantly, combined with some irregular  
bowel action. Diagnosis measles  
from onset of fever and stomach  
in measles. Combined with  
some time a treatment for the purpose  
of prevention of measles is best possible

my ab... I have...  
firm is for long...

Man... 8 or 9 years...  
I A A A

I A A A

I A A A A A

I I I I I I

A L L L Y

W W W W W

W W W W W

L L L L L

G G G G

I David B

I B  
I I  
David Burk Willson

Mrs. Bonny                      67 years of age,  
 been sick 18 months, itching over face  
 body, skin; rough thick scaly, when  
 ulcer spots on his neck, <sup>in the intertrigo</sup> <sup>in the intertrigo</sup>  
<sup>in the intertrigo of the scrotular tissue</sup>  
 in arched cases 5 drops, 3 times a day, of  
 Fowler's solution

James Keenan 18 mos. old, Has inflammation  
 of brain, his head now hot,  
 & jerky, had convulsion 5 months  
 old, was sick 2 weeks after, bowels  
 loose, 12 passages day, <sup>a regularity of bowels</sup> sometimes green,  
 still nurses, cutting 4 double teeth  
 tongue not much altered, head further  
 only hot, although the whole skin is  
 sleepless eyes do open. In this case  
 tongue does not show anything.  
 Next solution of alkalies & cuprous salt  
 potash with water, <sup>100 with orange</sup> <sup>paragoric</sup>

1. Has convulsion every 2 hours.

Patrick age 45 been sick  
 since Jan, slept 2 months - Dizziness  
 of head, more nearly feel about 3 weeks  
 ago, very sudden pain, back of head  
 some times. Feel trembling upper  
~~the back~~ <sup>back</sup> and thinny bones irregular  
<sup>passage</sup> & very fine tongue, a little swollen  
 had chill then high fever at the same  
 cough, pain in abdomen. Case of  
 gastric disorder, and nervous. Moderate  
 doses of <sup>10gr</sup> Rhus 5gr  
 Colman of soda 2t. a day. Mind

various, rest,

$$v = 2\pi r \frac{a}{b} \ln 2 = 1$$

$$x = \frac{a}{b} \ln 2$$

$$x = \frac{a}{b} \ln 2$$

$$x = \frac{a}{b} \ln 2$$

given  $\ln 2 \times a = 1$   
~~the~~  $\ln 2 \times a = 1$   
 and the base  $v = \ln 2 \times 2\pi r \times$   
 fraction for count surface  
 volume is given = a sp -  
 a question of the loss.



Surgical Clinic

Oct 20. 1888

Gross

1. Woman 50 years of age, married  
family, "inguinal gland, tumor  
left gland, had it 2. years, involves  
lymphatic glands, base of neck, arched  
detached (one so, always suspended)  
owing to the tumor in rather lying  
back the neck of the neck, surface  
tumor, remarkably hard, as a hard  
cancer. Discontinue pain, shooting  
during attacks this kind of tumor,  
Sawley can be done for a week  
less. It would return sooner  
as the system is full of the cancerous  
matter. Can only regulate the  
diet, or apply some palliative  
poultice.

2. Case of Lithotomy.

Headlines Classification

Class 1. Homocera

Division 1st. Pedicularia

Order 1. Alameda

1. Aedes
3. Gleditsia
4. Juncus
5. Chalcidius
6. Leptocera

Class 2. Neuroica

Division 1st. Phrudocera

Order 1. Simulicidius

1. " "
2. " " species

Division 2nd. Neuroica

Division 2nd. Coleoptera

Order 1. Anthracomyia

2. Anthracomyia
3. Anthracomyia
4. Anthracomyia
5. Anthracomyia
6. Anthracomyia
7. Anthracomyia
8. Anthracomyia

Division 2. Neuroica

Order 1. Anthracomyia

2. Anthracomyia
3. Anthracomyia

Division 3rd. Pedicularia

Order 1. Pedicularia

2

Class 3rd  
 Acromegalia  
 Class 4th & 5th  
 Neuroica  
 Neuroica

Thursday Oct. 21. / 88

Sickleg

10 A.M. Practical of medicine

Morbid affections of the circulatory  
Disease, abstract, little known, Curable, <sup>or quasi</sup>

known pretty well, in the state of in  
I prefer the physiological classification.

There is scarcely a case that the circulatory  
function is not affected by sympathy.

Understanding this sympathy, you  
know a great deal. All diseases sympathetic  
with the circ & excretory. The symptoms  
are most <sup>of</sup> syphilitic. Circulatory <sup>of</sup> pulse

<sup>of</sup> pulse <sup>of</sup> pulse <sup>of</sup> pulse <sup>of</sup> pulse  
indicates to Action of the heart, done  
by the small organs. If these do not  
do their duty, you have congestion.

In children, such is the case.

There can be the impairment of the

3. Normal atrophy of the large <sup>branches</sup> necessary  
to the normal action of the heart

1. By central organs, 2 by capillary organs, 3.  
By small organs. Hard pulse, heart less in  
full force, Artery, full force, 3 something under  
it to contract. 1. frequency, force rhythm of the  
pulse. Average pulse, men, 70 to 73.

women, 73 to 96, woman more frequent, man  
hard, W. soft. In heart, pulse varies from

50 to 100. Frequency must not be  
confounded with quickness. There are

2. others. Nervous system affects the pulse

2. The quantity of the circulating fluid

Rhythm, the intermittent pulse, is the most  
important. Sometimes occurs when the  
child goes to sleep. Most striking.

Occurs in hyperaemia, the inference  
to be drawn from it, I think.

Local hyperaemia is a very common  
obstructive affection, is entirely associated

with heart. The disease is not a disease of the  
arteries. When in the heart, it is a disease of the  
or decrease in volume.

Goose

11 AM.

Goose

Inq about hepatic, spleen & liver  
 than the heart, vomit during partu-  
 rition 106.7. Birds very hot  
 seems considered, a phlegm of cold  
 Inflamm. It runs in degrees with  
 acute character. In degree from  
 the slightest touch to the most  
 intense. In its character in young  
 sharp lancinating thro' lungs  
 dull & slight. In some, it begins  
 in various methode, burning  
 in some, dull, purring, being  
 inflammation about stopping <sup>in inflammation</sup> because shutting  
~~in the~~ in the evening than  
 in the organs  
 was at night than in the day. Because  
 it has more from the heat of the  
 at the time in the early stage of <sup>inflammation</sup>

Independent of the subjects between pain  
& inflammation. In inflammation, pain  
increases in proportion to the <sup>active</sup> mischief.  
In spasm, comes on suddenly as violent  
at first, but ends. In inflammation  
increases pain. In spasm, the reverse  
pain is formed in proportion to its  
violence & continues. A sudden  
cess. of <sup>necessarily</sup> p. is not of itself  
as <sup>a</sup> ~~of~~ <sup>valuable</sup> as an indication  
of what is going on. Pain is not by a  
pressure of the increased capillary  
vessels. Pain is a certain change in  
the ~~mental~~ sensation dep. on the ~~circum.~~  
In all inflammation, there is a certain  
disorder in the functions of that part.  
There is an increase of the sensibility  
in inflammation of a part, such as in the  
eye & ear.

Behave

Placed as we are in the world,  
surrounded by many things on all  
sides to entice us we are powerfully  
tempted to do wrong. When from  
Eden's grounds man was sent  
upon the world he was given up to the  
tempter, his former nature destroyed  
entirely changed leaving as we  
see now marks upon him that  
serve as some ancient monuments  
erected in the past to show the ob-  
server that the past was  
~~more than the present~~ and that  
he sees but the <sup>mouldered</sup> ~~remains~~ re-  
mains of what it was formerly  
great & grand. On the survey  
of the human mind arise the  
distracting passions that rule  
him and the appetites that  
urge him on these yet appear

traces of what he has once been.  
Had he been left by an angry  
Judge when he left himself no  
controlling power had ruled him  
But he would have moved on blindly  
to his ruin. Yet in him we  
discern principles that  
fudging from this power now  
would have been mighty in  
directing him. Among these  
is the desire of esteem. A  
natural propensity of man  
its origin is outside of man  
he does not put it in place  
it in himself yet it is in  
his own power to thwart its  
power & render its power in-  
effectual. Look at the child  
how it pines away if neglected  
It is not the mere absence  
of care for its body but the  
neglect affects it because it  
loves to be cared for and feels  
all its wants of its claims. As



esteem and regard. As it  
pours in years it leaves that  
others are to be said for and  
that it must sometimes  
yield. But the power of the  
principles not destroyed for  
all this. Blot out from man the  
desire of the esteem of his fel-  
low man and you obliterate  
one of the strongest principles  
bonds of society. In how  
many ways in life even  
during a day do we see how  
anxious men are not to the  
loss the esteem of those with  
whom they associate. Let  
their money go let it fly to  
the wind of heaven and let  
a man occupy the same  
place in the esteem of his  
neighbor how is his arm  
strengthened and how he  
feels that if you give him

that he can bear any suf-  
fering on his own account so  
that his name is unstained  
before men. Let Why does the  
skulking thief choose the  
hours of the night does it  
seem as if the eyes of none  
were upon him and no one  
would detect the guilt?  
Bring him forth in daylight  
let the eyes of man fall  
upon him in and if he do  
not manifest his confusion  
we all feel that he has lost  
one of the principles that  
could have any effect in bring-  
ing in back to his position  
in society and we hesitate  
not to say that he is a hard-  
man. How uneasy the thought  
that we are deceived makes  
us feel. We shudder at the  
idea and feel that however  
humble the position  
it above is who has caused a

gainst us we would wish to  
have his good-esteeem, even  
if though his favor does not  
affect us in any way. When  
one dies who has spent his life  
in doing wrong how anxious he  
is to clear his name from all  
accusations or its. Much as he  
dreads the thought of accounting  
to the high Judge for his conduct  
yet he also feels as if he would  
must not leave the earth and  
have his name mentioned only  
to be reviled and his memory  
to be execrated. Thus we see  
the miser at death vainly en-  
deavouring to propitiate the  
feelings of the world by bequests  
of money at his death when  
even if he wished he could hold  
the control of us longer. —

But we <sup>shalt</sup> have to take another  
view of this principle of es-  
teem let us be care of making  
Mans esteem the rule of  
our conduct in all things.

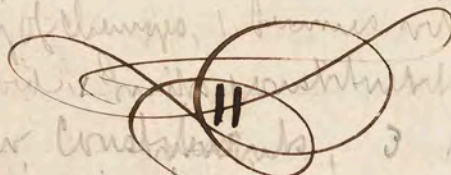
Go<sup>th</sup> has <sup>to</sup> be the witness

Great<sup>ly</sup> as ~~it~~ may be the influence  
of ~~that it should have~~ the good  
esteem of men on all our ac-  
tions yet we must always  
remember that it is not ~~to~~ to  
them that we are responsible  
for our actions that however  
just our actions may appear  
in the sight of men yet this  
is another and a far different  
judgment to be passed on  
our deeds than that of men.  
Each man is liable to be called  
to account but for his own actions  
and should not let the doings of  
others lead him into error.  
Look over the history of these  
the great men that have ap-  
peared on earth. Did they  
they all follow their fellow  
men and waited for their  
decisions approval of their  
courses then they had never  
occupied the positions they  
do. Had Luther waited patiently  
for his course to be sanctioned  
by the powers he acknowledged

his name could as a Reformer  
could not have been heard. He  
burst forth from the shackles  
that bound him and seeking  
other the approval from on  
high sharpened on his mission.  
Then behold a Galileo looking  
forth on the sky revealing from  
nature's <sup>blows</sup> that facts that  
the <sup>360</sup> ~~teleg~~ blindness of the  
times <sup>refused</sup> to see. Other  
examples. Least of all in  
religions should one wait for  
man. These are ex-  
ceptions in our ~~annals~~  
the annals of time. These  
broke the regular bond of  
Soc. because they were sent  
to break them. but with  
them generally the desire of  
esteem is always and will  
be a controlling principle  
and even in those who have  
thus passed the general

limits we see the same desire  
of esteem prompting them to  
weigh well the matter and be-  
coming satisfied in their minds  
of the truth of what they uttered  
they cared not for the present  
but looked with confidence  
with the future - As man  
becomes wiser & more better  
and better his <sup>saying</sup> ~~voice~~ will  
be true but until he has  
reached a higher grade  
than he is at present on  
he can never think that

Vox Populi vox Dei est,



conflict of blood races in disease, a  
variety of changes, 1. becomes mixed or  
mobile, 2. becomes stationary, 3. makes  
new connections, 4. non-  
elimination of  
view of new methods

But these do not constitute the disease  
itself. Buffy blood, is blood drawn from  
inflam. parts. B. coat, consists of Fibrin  
dissolved in albumen. Red globules give  
this substance a stronger affinity  
and fall together and form columns or  
rolls. Is usually found with inflammation,  
but does not constitute it. Find some  
decrease in the albuminous serum.  
Morbid by add. of new contents. This  
is very common. It is found some-  
times as good as rising into the  
strawberry.

Non Elimination. Malarial  
matters if not taken from blood  
seem to poison just as new  
Morbid matter added to the  
blood by non elimination  
actually vitiate. We thus  
suppose that malarial matter

the blood by reasoning  
Production, pus, is in the blood  
by his power, Piamia, small pox  
is thought that it is in blood. In  
Scularia sometimes the blood is  
used for inoculation. Lucet the  
ria. Observe the following rules,  
1. That all diseases imply vitiation  
of the blood 2. That these vitiations  
rarely constitute the disease  
Mechanical conditions of Liver  
connected to all fevers particularly  
Hyperaemia is the most universal  
accident of disease. What is it  
where does it tend? The spleen  
has been thought to be enlarged  
this function particularly secret  
Hyper. is sometimes is stopped in  
a short time by some suppose Linn  
others, suppresses other by treating  
the spleen yield to the effort



This is called Congestion. Hyper-  
emia becomes inflamed by the addition  
of hot element, viz reaction.  
it is always coincident with inflam.

Inflammation is <sup>totally</sup> as pervasion  
of the <sup>periphery of the action, circumscribed blood</sup> irritation as <sup>totally</sup> as removal.  
in Opium, 1st. irritation 2nd. heat, 3rd  
inflammation. Around point of stagnation  
have a slight circulation & still further  
down. Blood goes with more force  
& goes in greater quantity in a vein  
going to an inflamed part, than to  
a whole part. In Cholera there is  
congestion small organs don't  
do their duty. 1. It is the <sup>cause</sup>  
of the <sup>organs</sup> 2. Inflammation 3. <sup>thrombosis</sup> <sup>congestion</sup>  
or effusion of the parts

1822

William Lingard  
 Sympathetic fever, or lymphatic  
 inflammation. When inflammation is in an  
 active & great organ, this fever is always  
 then. Always before this a depression  
 occurs. He is chilly, cannot exercise  
 his faculties, vomiting, dryness in mouth  
 & throat, impaired appetite, & in some  
 cases, after there has lasted a day or  
 so or a little while he has the fever.  
 The countenance is flushed, the skin dry  
 the respiration frequent, he is  
 remarkably sensible, tongue coated,  
 thirst, no appetite, stools crumbly and  
 urinary secretion is wanting, high  
 colored, ~~and~~ uric acid, are the  
 symptoms of this fever. Sleepless,  
 turning all over. are also symptoms

~~A~~ *afternoon*

Man has been created mortal  
lible at any time to be called  
away from his place on earth. One  
generation passes away and  
another succeeds ~~it~~ <sup>and</sup> although  
it is so we cannot see the change  
yet each day we hear of a death  
and silently but effectually the  
head of the destroyer moves on  
carrying off his victims to their  
graves the hour making way  
for others to rise and spend the  
noon tide of their days but  
only to be summoned hence as  
others were before them. Thus it  
is with all the renowned or the  
unknown. Many of the great of this  
world have waited for succeeding  
ages to celebrate their praises.  
The busy activity of life takes  
no notice of them to render  
them especial objects of  
honor. It is only this combination  
with its freedom for everybody  
in present and respect for  
no path could person we  
with its principles of respect to none in  
the world carried even to the household  
off the ground we  
of the good a view to the

with its principles of respect to some in  
of the grave we carried even to the household  
find no honors given to the  
great at all to be compared  
to the great destructions of  
the old world small as they  
are. A Porcok passes from  
among us and as the although  
~~his death~~ appreciated has  
death produces no commotion.  
His departure is noted but  
no special eulogium is passed.  
But how do we view another sight  
on the Continent of the old world  
a man old in years and bowed  
with age has departed. Who  
attends his remains to the  
tomb? The nobility of the land  
each glad to testify to his  
merits and the renown he has  
shed upon the land of country,  
How different here. True we  
have no nobility here yet some  
marks of respect should be shown  
to those who have struggled and  
labored with their minds. Let  
no one say we are not bound  
to render the departed men  
of letters praise as a nation.  
Let a politician die or as they  
are called immediately attend

their deaths no matter what  
they were before statesmen  
and therefore justly our due  
country mourners. Over what one  
No one who has raised the nation  
it may be onwardly (although  
some some political causes fail  
in their times or at least seem  
to be resigning to do the opposite)  
and therefore justly to be  
praised but yet the man  
who has silently worked upon  
and moulded the nation  
moving thinking minds  
is left to be honored in  
after time.

Well might she honor him  
for he seemed <sup>more</sup> like a re-  
nant of the past a connecting  
link between this Century &  
the past than one who has  
lived on until more than a  
half of the present Century  
has elapsed. Although

no pageantry accompanied

no pageantry accompanies  
here the remains of those who  
have labored in the domain  
of the mind, yet their mem-  
ory is cherished so that on  
this Continent Humboldt's  
name is as well known as it  
is in Europe and his death gave  
rise to eulogiums upon his  
character as a man and as a  
scientific man that honor  
him as much as all the pomp  
that was assembled around  
his Coffin at Berlin. So  
with the memory of Prescott.  
He holds the silent tribute  
of the mind of the Country and  
although his death made no  
outward Commotion yet no  
was lamented all. When  
we think of the decease of  
the great by the principle  
of Contrast our mind

immediately receives to  
the ~~annumbered~~ ~~thousands~~  
whose departure is not no-  
ticed. How many a sol-  
dier has died on the battle  
field waving in the ranks  
of the army of some Conqueror  
who regarded men but as  
the tools of his hands.

They fell leaving their  
names to be mentioned  
but on the day of Judgment.  
How pleasant it is to know  
from this and feel that  
after we are gone we shall  
still be remembered by some  
of those we leave behind  
~~us~~ and how earnest should  
we be to leave behind a  
spotless name that it  
may never be mentioned

to be reproached & Fall

to be reproached. Fully  
 convinced as we are that  
 no human voice shall  
 ever penetrate and disturb  
 the silence of our tombs  
 thought would be exceeded by the  
 ly distressing to us, if we  
 anticipated that our news-  
 papers would be Calumniated -  
 give 3 Murex of ... 3 grs. of  
 boxes powder

Large Calumniated  
 and Crossed  
 B.

1 Bm  
 Cases of ...  
 14 spine great ...  
 back. sinuses in ... outside  
 of right back. had ... 3 years.  
 Wm



Handwritten cursive practice on a page from an old book. The page is filled with multiple rows of cursive letters, including 't', 'p', 'h', 'b', 'f', 'e', and 'o'. Each letter is written in a consistent, flowing style, demonstrating the mechanics of the cursive script. The letters are arranged in vertical columns, with some letters appearing in multiple rows to show different forms or connections. The page shows signs of age, with some discoloration and wear at the edges.



Young Lady, 17 years, humor in  
the neck. Left side connected with  
lymphatic glands, under the

Beoperated on Wednesday  
Processes probably extend into the  
large nerves of neck.

Chief humor on forehead, which  
was tried by subcutaneous operations  
included <sup>all</sup> parietal sinus, followed by  
suppression the ligature discharges.  
Indose the other half of this sinus  
Called "Mother's Vein". They vary  
from a pin's head to as large as a goose  
the head. consists of the capillary  
vein forbes, which are closely  
connected by cellular matter, which  
may be reached near. Find the  
arteries from by the former operation  
Introduce at one side around the  
hull, and reintroduce at other

side, and bird family.

Child, Tumor occupying upper  
lid, Abcessions, removed by means  
of incision apply on the same

Child, with Club Foot called  
Clavis. Foot at nearly right angles  
here before on last Wed. week.

Contraction of the tendo Achillis  
Anterior & Posterior Tibial muscles  
beside the Tendo Achillis to apply  
Apparatus to the foot. Did it on  
the other last time. Introduct  
instrument flatwise, then obliquely  
went in front of T.A. to cross it in the  
position & then saw quickly & divide  
the T.A. put some plaster across  
& apply Apparatus

Young Girl, 15 years old,  
 suffered 3 years, disease  
 of the Tibia. Operation of the  
 scooping out of the bone. Came  
 on after Yellow Fever. Bones  
 that enter into composition are  
 enlarged, find some dead bone  
 which I will scoop out, with chisels  
 made for the purpose. Cut the  
 skin directly over & down both  
 affected bone, & separate them.

what they are, nearly the things  
 in the time of Kansas & Pleas  
 time of Kansas & Pleas  
 disease = ankyrosed, at  
 distance 240.  
 6. in concealed with 240. 11.  
 240. 11. 240. 11. 240. 11.  
 240. 11. 240. 11. 240. 11.



Acetum, vinegar, (permitting anything with  
carbonic in it to stand in a temperature of  
50 or 60, it will ferment by the absence of  
oxygen) Ancient use, for Diarrhea, uterine  
hemorrhage (sugar of lead is now used for the  
last) <sup>for</sup> fever, sometimes employed, as drinks  
laboring on a deposit of any dusky matter in the  
uterine parts, it is used. Carries off the cancer.  
used a great deal now in sponging the whole  
surface of a man in fever, in typhoid, not  
in inflammation. <sup>less injured tissues, as</sup> good in Rheumatism, gut,  
Rheumatism, <sup>dr</sup> 1 dr. <sup>con</sup> 2 times <sup>help</sup> 1 orange peel  
Another use is in inflammation <sup>in the eye</sup> raised by having the  
fine line from bleedings. 1 dr is mixed with  
half a pint of water. Force with syringe into  
the border of the eye. Another use in burns  
scalds, on steamboats in case of scalding. Soak  
cloths in vinegar & apply constantly.  
Distilled vinegar. Acetic Acid ~~White~~  
transparent, colorless, fragrant, most

so of any acid, resembles water, not  
heavier, acid taste, better in prescription  
than vinegar. Spiritus M. by neutralizing  
the car. with vinegar. Remedial  
agents. Aceras in fossils, when forming,  
is cured easily by this acid, external,  
heat in a covered tin cup, heat  
flannel hot, dip in Acid & squeeze  
& apply to throat, and then wrap  
with bandage 10 or 12 times, the  
throat will be red, hence it is  
Rubefacient. In 10 or 15, blister  
Escharotic, clear off top of corn or  
horny mass, apply heated acid  
with ~~brush~~, then wrap around  
some bandage saturated with it. Use-  
ful in blisters. through a tube, acid  
was poured on the part directly, &  
when the part is white, remove all  
appliance & apply water dressing



When pain is gone, apply 5 grs. Red  
Precipitate into <sup>of</sup>

Pyrolicqueous Acid, obtained by burning  
wood, & then by distillation it is obtained

Is Antiseptic, Disinfecting, heavier  
than Acetic Acid, has a wood-smoky

smell. Remedies, for Warts, passed  
down the fissure, mix with white of egg.

Pass into it. Good for Capitis  
or sore head. Hair removed, and

surface cleaned Apply wash

poultice until softened. Wash it

with solution  $\frac{1}{2}$  ounce chl. of lime in pint  
of hot water. dry & paint with  
Acid. Do this morning evening

and put on oil cap. Cure for King  
Worm. It is stimulant. Used in

this way in Scutellaria Maligra.

This very fatal. Hypsoid element is  
there. Swallow a portion of it

4 1/2 <sup>administered by this</sup>  
 1 Powder <sup>simple syrup</sup> 20 or 30  
 times a day. Arrest gangrenous affection  
 removes foul odor. Poison Power  
 Females use it a great deal in reducing  
 fat. Recuset, no appetite, no digestion,  
 Arrest of a young lady that used  
 this, examined after death  
 the lungs was riddled with tubercles.  
 Given when taken in small quantities  
 it is poisonous some Sulphuric Acid is  
 sometimes found in it. It makes  
 sour Test. pour some into a tumbler  
 1/2 full of water & then pour 2 or  
 3 drops of Acid, & it will  
~~show white after a while~~  
 all it had been that is down  
 12. the perfect matter, means  
 men, Acetic in liquid that 2 3 g  
 4. for the circumstances that  
 2 3 g. 3. 2 1/3 fende  
 2 3 g. 30. 00 0 0 0 = essential being

Allen, Feb. 18th.

~~John W. Keight~~  
Sat. 3 P.M. Obstetrics

Child's head is 3 1/2 for <sup>transverse</sup> parietal diam.  
4 from back to front, 5 Anteroposterior  
19 1/2 inches long when stretched out,  
11 1/2 in the womb. The plane of  
the ~~is~~ is that imaginary  
line which is bounded by

Dr. Keight  
Monday 25th Practice.

Inflam. produced by concurrence of  
Hyperemia or congestion & irritation  
And it is a great source of a great many  
diseases. Permett claris that there  
cannot be inflam. without  
Exudation: a perverted action  
of the parts called irritation.  
Passing through the tissue of serum's course

All drops are not inflammatory. We have  
inflame without exudation & exudation  
without inflame. We have also pus, ~~which is~~  
Ulceration is also one of the consequences  
of inflame. Mortification also. That  
of the part, which is inflamed, is the result  
of the impairment of the part by solidi-  
fication of the Lymph. This has been  
Common inflame

Specific Inflame, Typhoens, small  
pox, Syphilis, this inflame, derives its source

from the cause, which has produced  
Fever, ~~which~~ from inflame. is divided

into 3 kinds 1. Lymphatic. 2.

Sarcolytic 3. P. Has 2 types.

1. Continuous 2. Periodical

patient may grow getting weaker, more  
emaciated, and then comes on another

kind of fever called hectic, does not  
run much except at night, ~~but~~

areal which causes the patient to lose much  
flesh. Aches occur when there is no perspiration  
entirely independent but attended more or less  
with anophy. Heat has known to rise  
as high as  $120^{\circ}$ , according to Granville, in  
the vagina during Restriking. During  
scarletina  $112^{\circ}$  F. The Post-mortem  
heat after Yellow Fever  $113$ . Extreme cold  
has never been tried rightly. Some  
writers say that during Chills  
it has fallen to  $72$ . In Cholera  
the tongue sometimes to the  
coldness of ice, while the patient  
complains of heat, & the body as  
cold as a stone. This is one of the  
most

# Gross Inflamm.

Monday Oct. 25. . . . . Emergency  
Continuity, Continuity, Agency  
of nerves. . . . . Lymphatics, & Blood  
& ways of spreading.

Intimate process of inflammation  
What does it consist of? will be  
the subject this morning.

Changes which take place  
Blood is altered in consist-  
ent, in colorless globules  
in fibrin. Always take  
place in the form of  
inflamed blood vessels are in  
a state of dilatation as well as all  
the nerves & veins which connect  
with them. Capillary vessels near  
such as can only be seen by  
microscope

So called from their resembling in  
size the hair, capillaries, there are  
2 kinds according to microscope

1. conveying a stream of blood  
continuously, 2. Admits red corpuscles  
very sparingly, one of both kinds  
When an operation is performed these vessels  
resent the knife to some purpose, thus stop all  
circulation there is nearly oozing of blood  
if care that. Red particles are  
supposed to be spheroidal, circular  
and exhibiting great numbers & contain  
the coloring matter, more or less iron  
convey oxygen. White are much larger  
than red, contain no oxygen, creep  
alongside of vessels. There are in inflammation  
are much increased in number, the  
white ones adhere to side of vessel  
Red ones become mixed with white  
and there is much confusion. Blood

rushes through. In healthy left ventricle  
of heart contracts 72 or 74 times a minute  
in disease 100, 140, 120 or 130. Red  
decreasing number becomes white  
weakened, become washed, irregular  
in shape in every conceivable way,  
owing that the lining membrane  
being serous pours out plastic  
matter, and this plasma becomes  
abundant. Blood becomes  
stagnant as inflammation goes on & advances.  
It is not dried blood, but also humidified  
heated etc. Altered state of the walls  
of the vessels, brittle, softened, permit-  
ting the blood to go into the sur-  
rounding cellular tissue, Eczema. These  
changes take place in the  
vessels themselves. Part inflam-  
is much more vascular than  
a healthy part.



The vessels & nerves carry a much larger amount of blood. There is not more frequency however. We might suppose that nerves carry on an important part, but it cannot be precisely found out. Various theories have been made about this. All <sup>the</sup> speculations concerning them, in early stages of inflammation, there is an increase power, but when ~~inflammation~~ part becomes stagnant, there is distility.

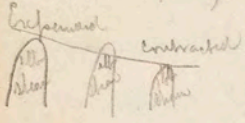
Booke

Monday, Oct. 25.

Chimney

Bo. 1. Air. 32° } diff. 14°  
 .. Water 17° } Water 32°

Bo. 1. Air. 32° } mean  
 Another Bo. Water 17° } 142°



Changes produced and measured by volume. And, that  
 leads to changes in aggregation. Addition, loss,  
 or 232 Mr 238 will result, that of  
 232 which will add to the  
 total. Great Mr 32 by addition of  
 232, 238, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000.

If the pressure be less, the force will  
 be less therefore the temperature will  
 be less, It is on this of that height  
 but above at the tops of mountains  
 because there is less atmosphere to  
 hold back the sun is below the  
 boiling point, etc.

English

Monday Oct. 25 1858 Institutes

432. 1st Ave. Chase and  
 go goes to output of ~~cent~~  
 great commercial products  
 whether communication and  
 gathered from water ~~masses~~  
 few means about (masses) ~~low~~  
 16. Education good future. Graduate  
 standard government duties must  
 this will ~~be the best~~  
 later, ~~infrastructure~~ a beginning  
 copy to. ~~see the volume~~ ~~institutions~~

# Dickson



Tuesday Oct. 26. 1888.

Practice

There is no single constant symptom in fever. Different types & forms of fever. Symptoms are all the signs of disease when they occur in certain way, they are reliable signs. Different parts of the body are not affected the same way. Fever affects the blood & circulatory system & the nervous system. It is preceded & is always as affecting these two systems. Some of them have their actions on one first then the other of this are the sympathetic fever. In a case of a wounded person who has a fever a few hours after. There is great doubt whether there is any blood poisoning. It is probable that all contagious fevers belong to humeral & that alone at first. Any form of fever must exhibit delirium & other which are impressions of mind by its cause.

We ascribe all the varieties of hyperæsthesia  
to the same cause which produces them. Several  
of them in remittent fever appear  
Periodically divided into 3. Natural  
Changes in Nervous affections as well as  
the changes of fever. Pulse beats  
differently at night than during day.  
2. Habit. Prædicted kind of fever of  
this kind on by taking a chill at  
the evening, and continued until the  
chill a regular periodical fever which  
then be stopped. 3. Disposition  
has the power under certain circumstances.

Gross.  
Tuesday, Oct. 26. 1858. ~~Hyperæsthesia~~ Inflammation  
in case of M. & Decussation. ~~and~~  
Removal of febrile cause, & preventing  
exciting & inflammation. Action. Even when  
the cause has been removed, the disease  
being so far advanced, nice & correct Treatment

being so far advanced, will still grow. Treatment  
of inflam. <sup>is of 2 kinds</sup> 1. Constitutional & local. of the ab.  
Blood-letting, Purgatives

In many cases the  
Blood-letting will stop the disease altogether. This is  
not necessary in <sup>very cases</sup> inflam. even if a strong system fails.  
We are governed by 1st. State of pulse and, morbid  
affections, condition of system at large, & importance  
of the part inflam.

Mitchell

H. P. M.

M. M. & J.

Acidum Benzoicum. Very White. Obtained  
from Gum Benzoin. Not without  
fragrance, although not very. Obtained  
by smoking the tree, this is the gum.  
It is used reduced to powder, & placed  
on a cancer, the cancer placed on a  
stone, the Acid is drawn off which the  
patient inhales as an expectorant.

It is ~~sometimes~~ used in hemorrhages  
repetitively

drive up the nose by syring, it  
will stop hemorrhage & 1/2 oz. up beaction  
for piles. Make paper cone, past strips  
together, 3 or 4 in. in base, place 4  
pound weight to rest, lay coarse  
powder of Benzoin, and, when put  
cone over it, & it will be studded  
with the acid. This has an empyre-  
matic odor. There is an important  
Pharmacum. It is called Paragone  
Elixir. This, P. A. is always added to  
this mixture. This is used in  
Urinary aff. It stays in the blood  
& does not go out as the acid does.  
Relief of the prostrate gland.

P. B. A. <sup>1/2</sup> <sub>oz</sub> rubbed up with  
white of egg & whole added to the mixture  
Cathartica  
Carbonic Acid.

It is the gas, which is driven from Burning Water.  
It was used as a remedy in the form of  
injection on fatal ulcers, dismembered. Poison.

Fire, of charcoal, no means of getting oxygen,  
Oxygen has been consumed to burn charcoal,  
Carbonic Acid or Gaseous Gas is formed, & its  
poisons them. Take persons out in the  
air, & throw cold water on them. Sometimes  
apply counter irritants, but they do not do  
good if water don't

Acidum Citricum, lemon juice,  
found in Squill, cranberry, & whortleberry,  
athyras and espence in lemon.

Obtained from lemon by separating  
from lemon by straining, & saturate  
this with Carbonic oxide. This is  
mixed with sulphuric Acid, the  
Citric Acid floats on top in crystals  
Very hard to soluble in water



Valuable in Rheumatic Gout, sick  
stomachs. Make drinks 749 ounces  
to a pint of water. To make effervescent  
put 15 gr. in tablespoon & throw into  
other mixture. To distinguish from  
have 4 bubbles, then  
a solution of potash in 2. Pour  
~~the~~ this the Acid, and then  
pour Tartaric Acid, & there will  
be a precipitate insoluble in water  
Cream of Tartar

It is used for acidity. There are  
some cases of acidity of stomach which  
can be cured by this. Rheumatism  
to neutralize it, effect in a solution  
of potash.

Hydrocyanic Acid; or prussic  
Acid, the latter came from the fact  
that the first made had something  
to do with prussiate. Compound of

Hydrogen & Cyanogen. If it is pure it is transparent, if there is any iron in it, it will be dark colored. It ought to be kept either in a dark bottle or some bottle with paper ~~off~~ to keep rays of light out. This is contained in a great many plants. Contained in Mountain Laurel, Peach Kernel, &c very potent. A single drop put into the mouth, ear, or eye, will instantly kill. But it serves, Absolute medicinal are the kinds. Medicinal is far less strong than Absolute. ~~Always~~

~~Whence~~ D. Quigley  
 D. Quigley Cert  
 Tuesday Oct. 26. 1858

Functions	that relate to the preservation of the individual	1. Animal & of relation	Sensation Intellec <sup>tion</sup> Muscular Action (Efforescing) Digestion Absorption Respiration Circulation Secation Excretion Generation
		2. Nutritive	
	that relate to the preservation of the species	3. Reproductive	

Bache Quiz  
Tuesday 4 P.M. Chemistry

## Medical Clinics

Wed. Oct. 27. 12 M. Dickson

1. Young Lady.

3 mos ago

made false step, & has been sick since. Has  
pains in Ankle & Elbow. Rather coincidence  
than cause. Knee was swollen when  
3 years old, and there is a scar. There  
is some constitutional affection. Had  
swelling on neck for 3 weeks, & when she  
catches cold has come. Is a subject of  
stomachic affection. Her feet swell  
after walking about. Keeps her feet  
and nothing like a cough. Keep the  
constitutions some up without any special  
object but that. There is a small diff. bet.  
scrophulous & Tuberculous. Admin. rect,  
Keep feet up. Rub dry mustard on

off parts, rashes & elbow. Comb of Iodine & Alkali  
is a good alterative. infusion of *Cypripedium*  
with Iodine 10 ounces of C. with  $\frac{1}{2}$  dr. Iodine  
tablespoonful in wine glass of water every  
4 hours. Hard to tell whether we can control  
the drasiness or precipitation

2. Philip Reider, Age 42. Had complaint in  
throat 6 or 7 years. Commenced after eating  
Spiss up occasionally in mornings a little  
blood, No pain in swallowing, sore to touch  
externally, Eat, sick at stomach. Pain in  
Head. Sick at stomach after eating last  
thru. Feel pain all along the face. <sup>Fallen away</sup>  
New touch sickness him. Throat red, <sup>infectious & dangerous</sup> New  
shrows up. Diff. Swallowing sometimes, Swallow  
easily. Case of Chronic Pharyngitis & Chronic  
Charyngitis. Fever, Chills, not every day, in the  
morning. Head very much distressed when below  
fever. Pulse frequent, quiet. Tongue slightly furred  
red at point. No pain to talk long breath put read  
sleep well. Had throat treated with bromine water

next day blood runs out of nose. Apply alum  
powdered. moisten fingers with saliva, tapply  
down throat as far as <sup>5 grs.</sup> can reach 1 or  
aday or 2. Pres. White oxide of Bismuth & 2 grs  
of Dover's Powder 3 times a day. after applying  
Alum, wash it out with water, but bear it as  
long as possible.

Richardson                      been ill for 3 mths.  
3 hrs on 23. much better. tongue better. Feels  
some lower portion of right lung when breathes long.

Continue same treatment

A. Wm. Hudson Ho.      been with 5 or  
6 years.      pain in bones. Ann. sore throat  
has cough with the pain. in knee, an acute  
Chronic Rheumatism. Count above hand firm  
pain hinders from closing. Had food cough  
Has sneezing in throat. Spits up white  
pale green. Fisherman. Appetite not  
good. Put him on Alkali treatment.  
Decide of Potash taken in a large quantity

as he can. Ionia. Ison. Porack to drink  
during day two meals & as can  
a. p.  
1 dr. to every 4 ounces water. wine glass in water  
Amount of food as much as can during day. Keep  
warm don't expose himself.

5. Margaret M. Linsley. Sick 2 years. Throat  
Began eruption throat & tongue. Cough  
troublesome. Pain in throat. Can't get long  
breath. Coughs during night sometimes  
day. Spits up some purple matter.  
Difficult to get up. When about rising  
in morning coughs & spits most. don't  
wake up coughing. When going up stairs,  
breath stops. Left breast swollen but  
<sup>throat</sup> not wrong otherwise. Tongue not much  
altered. Laryngitis, not very bad. Juice  
of Lobelia 5 drops in water.

6. Maria Hunt, 58 years. been sick 7  
weeks. Got up at night throat closed. Coughs  
pains in left side, affecting the chest

must not neglect. Had fever, dulness of  
 headache. Pulse, irregular, frequent, tense  
 had nervous case when coughing  
 difficult breathing when coughed. had  
 nervous case when breathing. Pneumonia.  
 Bronchitis, prominently, although probably  
 mingled with some <sup>pulmonary</sup> disease. *Epicadumana* com-  
 bined with opium. Symp of *Scilla* 4 dr  
 of time of *Epicadumana* desert. Spoonful every  
 2 hours. If don't make sick, take half  
 spoonful. if does, take 1/4 spoonful & keep  
 until sick. Akute character.

But there must surely  
 seem to be such as we feel  
 are, although in that very thing  
 that is the greatest fear that we  
 may be able to put as we wish  
 to be thought, however certain  
 it to much be given. Cause the  
 tendency (Chambers' Miscellany 45, 182-  
 182) is noted, somewhat recommended

Boston. Feb. 18th.

# Surgical Clinic Gross

Young lady, Recid. injury in arm a  
year ago. Large protuberance back of  
the elbow where there ought to be a small  
point, by the <sup>supra</sup>proneus muscle. Dislocation  
of the ulna.

Child's tumor in the iliac region  
extending towards the ribs. When 15  
mos old a little lump was seen there  
never been entirely absent. If a hernia  
the contents would have sometimes  
slip back when child recumbent,  
formed has effaced the appearance  
General health is good. Incision  
tumor filled with serous matter.  
filled with pus. Chronic abscess  
cut large puncture, & allow the  
pus to come out, stop stop the  
tumor will disappear



Child kept quiet, light diet, probably  
no-nourish, give a cathartic. Don't  
but soon to keep the opening  
ascended. This is an abscess of  
scrofulous nature although <sup>healthy</sup> child  
3<sup>d</sup> child - difficulty in drawing  
head flexor muscles. Divide  
the tendon

4. Boy. Malignant inflammation of the <sup>matrix</sup> of  
of the nails. Spreading ulcer. Malignant  
Onychia. This is common among  
children from 5 to 12 years of age  
Most apt to occur in children  
of a scrofulous <sup>the</sup> disposition. Worse  
at night than day time. General  
health gives way, appetite bad.  
During the progress of the  
disease, Fells hard, tongue  
clean, hair nail off by pieces  
The colour, spotted brown

5th. Swelling on back  
of head, 4 rows, hands, very  
tender, ulceration on top of right  
elbowish inflammation. Pains  
more at night than day. Not  
preceded by any watery  
thing. hard, suspicious in  
character. Remove it by an  
elliptical, and remove some  
healthy part with it, and then  
draw skin together.

6. Young lady with tumor on  
neck, 3 days standing, 17 years  
of age. Be careful in making  
an incision not to let the air into  
the veins lest it will go into the  
heart and destroy life. Glandu-  
lar tumor. not malignant in  
character.

I know

Thursday Oct 20, 1887

Practice

Self-imitation of disease. In fever it is  
more marked. It must not be allowed  
to direct our treatment. Each disease has a  
beginning, a middle, and an end. Exanthemata. You  
can't prevent the fever today the progress  
of these by maltreatment &c. In small  
Pox for instance. There is a stage, as in  
influenza, of incubation, during which impor-  
tant changes take place. Some physicians  
say that when appetite returns  
<sup>when</sup> pulse returns to healthy. I say  
that no man can say when  
fever is over. What says  
Cough as one of disease. I can say  
that Cough is Cough the disease  
lasts. There is such a thing as natural  
end to all diseases, but they vary from  
circumstances, If you take some

of intermittent fever say a

put or intermittent fever varies  
 according to circumstances. There is a  
 large class which does not have this  
 fever, there is another that is doubt-  
 ful. Of this class is Whooping Cough.  
 In the intermittent fever, the fever of your case  
 to an end, if doubt still remains comes to this.  
 First most simple form of disease is  
 intermittent fever, & that form which  
 is epidemic.

The question

Page 98

with constant  $u = a^2x - x^3$

$du = a^2 - 3x^2 \quad d^2u = -6x$

$3y^2 = a^2$  when  $du = 0$

$x = a\sqrt{\frac{1}{3}} \quad y = \frac{2}{3}a^2 \cdot y = 6\sqrt{\frac{1}{3}}$

$V = 2\pi a\sqrt{\frac{1}{3}} \cdot \frac{2}{3} = 4\pi a\sqrt{\frac{1}{3}}$

$2\pi \cdot a^2 \cdot \frac{2}{3}\sqrt{\frac{1}{3}} \quad \sqrt{\frac{1}{3}} = \frac{2}{3} = \frac{1}{3}\sqrt{3}$

$\frac{9}{4} \pi \sqrt{3} (a^2)^2$

Tropisms by Dean  
Swift.

A Woman in passing  
near a Fremona fiddle  
Knocked it down with  
her Mantua. The Dean,  
shouted out

"Mantua, vae misera nimis  
-um vicina fremona

A Man lost his specta-  
-cles on a rainy night,  
The Dean consoled him  
by saying

totum  
fuit plerumque, redempt  
spectacula manna

$$\sqrt{2k} \left( \frac{a^2}{2} (a^2 - x^2) \right) = 2k \left( \frac{a^2}{2} (a^2 - x^2) \right)$$
  
from equation of circles  
$$r = 2\pi k r^2, \quad r^2 = \frac{a^2}{2} (a^2 - x^2)$$
  
% altitude is 2x  
The radius of base of cylinder

area minimum,  $\eta = 6\sqrt{\frac{1}{3}}$

$$x = \frac{1}{3} \sqrt{2} = \frac{\sqrt{2}}{3}$$

$$2\sqrt{\frac{1}{3}} = \frac{\sqrt{2}}{3}$$

$$2\sqrt{\frac{1}{3}} = \frac{\sqrt{2}}{3}$$

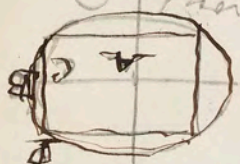
but  $l^2 = 2af$

$$2af = \frac{a}{3}$$

$$af = \frac{a}{6}$$

1. All the way  
 further around  
 compasses or have  
 more axes, better  
 given by procedure around

transverse axes  
 section through of  
 given as profile of elliptical



given mechanical stress  
 a cylinder,  $AC = x$ ,  $BC = y$   
 $(x+y) \sqrt{2}$  - minimum of length  $D$

$$dx = -\frac{ds}{v} = -\frac{ds}{\dots}$$

and substitute and you

$$x^2 + y^2$$

$$- 2y(2x^2 + y^2 - 2) \text{ and } 2$$

$$2x^2 = 2y^2(2x^2 + y^2 - 2) + 6y^2(2x^2)$$

$$2x^2 - 6x^2 = 0 \quad 2y^2 = 6x^2 \quad x^2 = 1/3 \cdot 2y^2$$

they which is not necessary

$$2x^2 + y^2 = 0 \text{ gives imaginary roots}$$

$$\frac{y^2}{(2x^2 + y^2)(2x^2 - 2)} = 0$$

$$\frac{y^2}{(2x^2 + y^2)(4x^2 - 2 - y^2)} =$$

$$99. \text{ } 2x^2 = (2x^2 + y^2)(4x^2 - 2 - y^2)$$

For  $a : b :: c : d$ .

Exp:  $a+x : b+y :: c+r : d+s$

$$\frac{a+x}{b+y} = \frac{c+r}{d+s}$$

From equation  $a^2 = 2bx$   
 $\frac{a}{b^2x} = \frac{a}{2a}$   
 for  $b = \frac{a}{2}$

$$x = \frac{a^2}{2bx} \quad a+x = \frac{a^2}{2bx} + x$$

$$4x = \frac{a^2}{2bx} \quad a+x = \frac{a^2}{2bx} + x$$

$$4x = \frac{a^2}{2bx} \quad \frac{1}{4x} = \frac{b}{2a^2}$$

area  $CSR = \frac{1}{2} \times \frac{a^2}{2bx} \times \frac{b}{2a^2}$

$$\frac{1}{2} \times \frac{a^2}{2bx} \times \frac{b}{2a^2} = \frac{1}{8} \times \frac{a^2}{bx}$$

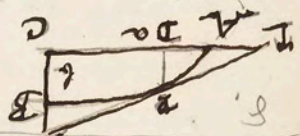
$$u = \frac{8bx}{(2a^2+x^2)^2}$$

$$u = \frac{8bx}{(2a^2+x^2)^2} \quad \frac{du}{dx} = \frac{8b(2a^2+x^2)^2 - 8bx \cdot 2(2a^2+x^2) \cdot 2x}{(2a^2+x^2)^4}$$

$$u = \frac{8bx}{(2a^2+x^2)^2}$$



when sides are all tangent  
 to circle of same radius then  
 perpendicular bisect to tan-  
 gents to circle after the co-  
 incides with  $AO$  &  $CO$ . Length  
 of  $AO = a$ ,  $BC = b$ ,  $R^2 = \frac{a^2 + b^2}{4}$   
 Area of  $\triangle ABC = \frac{1}{2} \times BC \times R = \frac{1}{2} \times b \times \frac{\sqrt{a^2 + b^2}}{2}$   
 $\therefore AD = x$  Path length  
 $\therefore IA + AD = 2x \therefore ID = 2x$   
 $\therefore IC = AC + IA = a + x$



$$\Delta^2 u = 4r - 8r = -4r$$

~~3~~  
 $x = \frac{4r}{3} \therefore x = 0$   
 $4r = 3x$   
 $4r = 3x^2$   
 $\Delta^2 u = 4r - 6x$   
 $4r = 4r - 3x^2$   
 $u = 2rx^2 - x^3$

95%



is due. and next it is necessary  
to hold a ~~visit~~ visit to find  
out the ~~cause~~ cause, Jan. 29.  
I have the ~~cause~~ cause  
very on 2.38. In the  
of the, the can (the  
if he has common sense,  
(don't ~~in the~~ most beautiful  
very ~~in the~~ in the 2.38.6  
had made ~~most beautiful~~ in the  
is ~~most beautiful~~ in the  
at the ~~most beautiful~~ in the  
13, are ~~most beautiful~~ in the  
reports of the ~~most beautiful~~ in the  
visits of the ~~most beautiful~~ in the  
Mortuary ~~most beautiful~~ in the  
18. That ~~most beautiful~~ in the  
that the ~~most beautiful~~ in the  
ing the ~~most beautiful~~ in the  
ing the ~~most beautiful~~ in the

Allen, J. H. M. D.

237, 18, at present to me

that this (course of business)

in many times of ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup>

it one makes a little more

defection - B. working to

among other things that the

one was buried in the

Account (the [?]) 18. and

to be in turn what the one

would show it alone by the

(copy) it seems to me that

of the following the place

the name, under the impression

that the one was ~~the~~ <sup>the</sup>

instruments, in account

of the things, ~~the~~ <sup>the</sup>

numbered 2, that the

(name) was the ~~the~~ <sup>the</sup>

(the name) of

the one and ~~the~~ <sup>the</sup>

with ~~the~~ <sup>the</sup>

89.93. 200 paper on man-  
 cal of problems in speaking  
 in a formal manner. try  
 reads technical 13, however  
 it appears paraphrased in very  
 much being named as it  
 was important (that subjects  
 you try not over X 12)

Prin. Feb. 1945

to more over hand take  
 3 times first on over a foot  
~~MS~~  $f = m \times s$  ~~with~~  
~~MS~~  $s = \frac{f}{m}$   
 $5 \times 12 \quad \mu = M \times 2$   
 $2 \times M \times 2$   
 of body retains about an  
 cup or 2  $\mu \times M \times 2$   
 of a set from  $f = m \times s$   
 $f = m \times s$  but  $f = m \times s$   
 (meeting purpose) for a for  
 and r.

1875 in calculation, 23 & 15  
 appear on chart & compare  
 polydrome dilatation.  
 If we see the point of  
 dry density = 1.0  
 as a healthy = 1.0  
 the nature, 20. how (1/5)  
 advent of manner 21. 525  
 future pleasure bright to  
 clear in an off handman  
 more bright (bright)  
 let to clear (clear)  
 Exercise & compare  
 starting in May 27.  
 Rock just in place, 237,  
 in 1807 to 1808  
 address, 4. 1808  
 in morning about midday  
 at regular interval in  
 0 208 address eye to  
 field, 237, 10, 1808

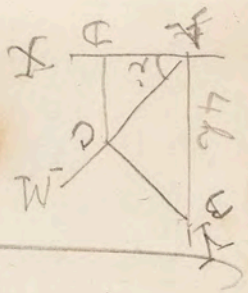
97. 3 = 3000

Alton, Feb 12th

235. 21. 65 just added & (new material) from north of Alton  
 26. 1000' 0' to 1000' 100' to  
 1000' 0' or 1000' 100' S.  
 to name 1000' 100' S  
 in section 1000' 100' S  
 from a change in appearance  
 take out all 1000' 100' S  
 it shows that from which we  
 take with our head to name the  
 1000' 100' S common and 1000'  
 1000' 100' S, at 1000'  
 1000' 100' S  
 in transition by transition  
 the first in Alton on the other  
 side looking 1000' 100' S  
 for the "1000' 100' S" and 1000'  
 to look at other streams

272. need or absent  
 taken ground 273. through  
 (Cannon get to the end.  
 293, further distance  
 necessary 298. that the  
 we, that the matter,  
 313 Baker's pattern,  
 315 0 gpy faulting in  
 horizon, in fact 320  
 circles, with to 329  
 329 g. faulting in the  
 primary block.

Transfer from M to



$AD = AC \cos X$   
 $AC = 48 \sin X$   
 $AD = 48 \sin^2 X$



89. ~~to the~~ ~~to the~~

being, ~~to be~~ to be

Confess ~~to be~~ ~~to be~~ 241

marked ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

was ~~to be~~ ~~to be~~ ~~to be~~

202 Fairweather  
 Reservoir (empty in  
 October) and the  
 direction, 206, as well as  
 kind of needles and  
 209 a tree with frequently  
 autumn fall, 213, very  
 fine in fact, 214 & 209  
 in error, 215, they did not  
 design at all to look like  
 oak a look, 218, ~~of~~ <sup>of</sup> ~~the~~ <sup>the</sup> ~~same~~ <sup>same</sup>  
 finding ground, 221  
 other fall, 221, to a  
 another, 226 that the  
 year oak, 228 other  
 as a whole, 230, arranged  
 his dinner, 232  
 from a side 236  
 of hollow marks as that  
 they were not considered

87. Last line page 430, ~~there~~ that they might

pleak, believe course  
expressed Arthur's reasons  
inference - 3. Emotion,

4. Consequence - 431.3a  
and consequence looking  
crediting fact that  
there was a notion of 431

to bring it out - part  
to interest, 431.5, water  
their guidance 11. ~~part~~  
that 431.5, direct was

went to page, 430, 15  
good as you find any  
one. p. 7. on of ~~part~~

order occurrence need  
to. XIII what the ~~part~~ has  
been determined ~~part~~

clear. Feb. 1878

Jackson. Feb. 10th

429

pretho: when I have  
see 1 line from bottom  
less of the means  
the a substitution 40.

430

7th line from after

and are being at 40.

430, 13th line from bottom

pretho: substitution di-

care in the substitution

ment of the substitute, 15.

face adjective. XIII

Herodotus had a part

of the only part of the

word. 430. 13th line from bottom

Quam membra sunt

430, 7th

line from bottom

it is not from bottom

of the number from the  
 number of 23510  
 This means horses either  
 because 23510  
 because the horse  
 from the year  
 at least 2 in the  
 other 23510  
 11. one of the  
 at 11. The  
 very close in  
 space between  
 with in which  
 means of 23510  
 of the 23510  
 even more  
 and not at all  
 sense of word  
 22. to have  
 fine ideal

Allen. Feb. 9th. 1859

15 Jan 234, also to try

of <sup>Ken</sup> ~~agreement~~ <sup>names</sup> ~~names~~

\$317. <sup>Ken</sup> also try. so done

terms ~~is~~ is at other things

draw what <sup>is</sup> ~~is~~ <sup>names</sup> = names

234, 18. description <sup>names</sup> ~~names~~

especially <sup>names</sup> ~~names~~, <sup>names</sup> ~~names~~

21. or <sup>names</sup> ~~names~~ (or <sup>names</sup> ~~names~~)

to the name, 25. <sup>names</sup> ~~names~~

you make the <sup>names</sup> ~~names~~

also in the way, 20.

at least, 23.

to you <sup>names</sup> ~~names~~, 234.

28. <sup>names</sup> ~~names~~ in the <sup>names</sup> ~~names~~

in <sup>names</sup> ~~names~~ <sup>names</sup> ~~names~~, 135. the

name of <sup>names</sup> ~~names~~ has been

Although to <sup>names</sup> ~~names~~ the <sup>names</sup> ~~names~~

and from <sup>names</sup> ~~names~~, 2357

copy the <sup>names</sup> ~~names~~, 2357

of <sup>names</sup> ~~names~~ has been <sup>names</sup> ~~names~~

from that get & x by

$x = 2k \sin 2v$

$\frac{1}{2} \frac{d}{dt} (90^\circ + \theta) = 5 \sin (90^\circ - \theta)$

$\frac{3}{2} \frac{d\theta}{dt} \sin \theta = 5 \cos \theta$

Integrating gives values of  $\theta$  <sup>another</sup>  $90^\circ$  there is ~~no~~ <sup>another</sup> value of  $\theta$  which has the same = same of first quantity therefore  $\sin 2v = \sin 2v$  ~~therefore~~ <sup>therefore</sup>  $\sin 2v = \sin 2v$  ~~same values of v~~ <sup>same values of v</sup>

and  $\sin 36^\circ$  to get differ

difference (19)

$4 \text{ hrs } \sin 2v \text{ day} = 4 \text{ hrs } \sin 2v$

if day = 8 hrs maximum ~~for it could increase~~  $dx = 2 \text{ x } dx$

$4 \text{ hrs } \sin 2v \text{ day} - 2 \text{ x } dx = 0$

$2 \text{ x } dx = 4 \text{ hrs } \sin 2v \text{ day}$

$\frac{d}{dt} = 2k \sin 2v \text{ day}$

$\frac{1}{2} \ln \frac{a^2 + b^2}{a^2 - b^2} = \frac{1}{2} \ln \frac{a^2 + b^2}{a^2 - b^2}$

# Proposition

$n = 2, 6, 15,$

$$\frac{289}{r^1} = \frac{r^1}{r^3} = \frac{r^1}{r^2} \quad n^1 = r^2 289$$

$$\frac{1}{r^1} \cdot \frac{r^1}{r^2} \cdot \frac{r^1}{r^1} \cdot r^1$$

$$\frac{289}{r^1} \cdot \frac{r^1}{r^2} \cdot \frac{r^1}{r^1} \cdot r^1$$

$$f = \frac{289}{r} \quad f' = \frac{289}{r^2} = \frac{289}{r^2}$$

$$g' = g \cdot \frac{289}{r^2}$$

$$g : g' :: r^2 : 289$$

$$f = \frac{289}{r} \quad \frac{1}{r} \cdot \frac{289}{r} = \frac{289}{r^2}$$

$f : f' :: r^2 : 289$

Arithmetica ( $t = t'$ )



Problems from Cantu where  
 $f = 5$ . We have  
 $f: \mathbb{Z} \rightarrow \mathbb{Z}$   
 $f(x) = 5x$

7 pages. Sub. 8th.

ally,  $\mathbb{Z}$   
was not a  
the group of the group  
conjecture effects. XI 38  
has been used by me.  
there has been discussion, to  
think that he is wrong  
in number, XI, 38 day  
whole of a new construction  
strength of reduced factors  
was not achieved the 8th  
and known them, then the  
know their ability to do  
8. matter is presented to me  
and then are simple & general

Jack Rame Fr. 8th

498. 35 at 14 die am

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14

when we say 36 at 14



heat,  $dy, h$  be present  
 from all the heat sent a  
 certain value - when  
 there is not, or small  
 they must be 0, because  
 $dy, h$  with these 2 equations  
 are necessary objects in  
 design and can't be the same  
 in form to get equality  
 $dy = 0$ , first 1st diff  
 and co- $dy$ , a make it = 0.  
 value of  $h$  must  
 be taken 1st, diff. co- $dy$   
 = 0 with respect to  
 $h$ , or  $h$ , it  
 must then make  
 diff. co- $dy$ ,  $h$  must  
 be made, diff. make  
 first equal to 0 it must  
 make the  $dy = 0$  or

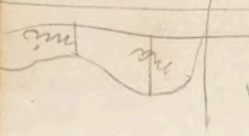
If the function is a map, both values will be negative. A more exact picture - for small quantities just use greater than all the



$$\begin{aligned}
 \eta'' - \eta &= -D\eta + D^2\eta^2 - \frac{1.2}{2^3}\eta^3 \\
 \eta' - \eta &= D\eta + D^2\eta^2 + \frac{1.2}{3^3}\eta^3 \\
 \eta'' = \eta - D\eta \cdot k + D^2\eta^2 + \frac{1.2}{3^3}\eta^3 \\
 \eta' = \eta + D\eta \cdot k + D^2\eta^2 + \frac{1.2}{3^3}\eta^3
 \end{aligned}$$

$\eta = f(x)$  what conditions must be satisfied for the function to be a map?  $\eta = f(x+t)$  by Taylor's theorem

17. The procedure for the procedure



234.8, poetry & yoga -

meter, 14. But the 8th

are nothing but poetry!

At this, Rata is famous

~~with 200 per~~

~~the 1st 7th~~

and the present form

is subject to page 84.

Maximum of minimum.

is and may be arranged

in order of a curve.

Maximum of minimum

that value of constant which

gives the greatest possible

of least possible values of

the function. But we know

it so that value that

gives us the value which is

maximum of  $f(x)$  than

out to be in chance in this

and how may it be

The District of Columbia

has made for 238, 800

per year practice of that

the same may be made

233, 16, 270, 000

2000 per cent

out of the year of change

to be for everything, 22

at 25 in American way

and 25 names forward

them all the best and at

length they address their

in this name, 234, 1, 900

1, 000, 000, 000, 000

at 3 the 25th account

amount on or after

and mean of all in

has been everything

(beautiful) 234.5

17. active part of change  
then (action of your order) (more)  
18. the time of (order) (more)  
22. to day to use it (more)  
to consider of (200, 0,  
at the top of (order) (more)

232

Allen, Feb. 17th.

to have been with her  
and fill with (order) (more)  
outside bar of bar (more)  
and find the order to  
find the bank. There are  
hours of the. at place where  
due to (order) (more) next  
to handling (order) (more)  
Bank of (order) (more)  
fact, (order) (more) so (order) (more)



13. *Notomy*  
 In the *Argemone* (poppy)  
 defects in structure of air  
 more numerous in arteries  
 than in veins, but is  
 determined off by other  
 means, but at which  
 it will be described later  
 Daniel's air first work -  
 that, it is a cryophore,  
 either in full, or but few  
 so delicate than in other,  
 diffusing in other, other  
 but fills out other, it  
 in other than in other,  
 The air in *Argemone*  
 heart, Daniel's one,  
 much they not feeling  
 nature. *Argemone* is  
 case through which for  
 with power even the

He observed and it was  
found ~~to be~~ carbon.  
hypnotizing himself in  
day. Research into  
human have showing  
our history and weight  
is attached to it, and  
has been to history. It is  
also after our work it is  
found and some other  
It is rather a hypothesis  
called a machine ~~them~~  
hypnotism, another  
place has the mechanism  
on place and the other  
covered with another  
not made but just  
also limit, also, other  
and is lower found  
nature of man - ~~to~~

St. Bernard had noted  
Titators. When he arrived there  
they said they could hear  
it first take look - of  
2100 while water looked  
1920. He told them to put  
a bit on lot which they  
as of looking the picture  
St. Bernard put on back  
over over both the pictures  
which was at 370 in out  
physically true. First he had been  
formed if you were pro-  
duce you lower nothing  
to be seen from great hole  
than water of same measure  
Confidence in the water  
quantity of water taken  
air, I gave and a water  
conditions are. Making water  
series, out of determining  
is called by the name of  
Pico of the mountains of

Afternoon, Sun Dec  
orderly, little of gas  
except, this is very li-  
quid itself, they under  
the electric force increases  
in length, but much more  
gradually, but the greater  
have great electric force  
when generated at bottom  
and when they connect  
they must have electric  
force more than 15 lbs.  
to prevent or else they will  
explode the body at 2120  
because the electric force  
is then = that of hydrogen  
in force, at bottom of  
mine it takes in the  
to last, group to make with  
at least 1000 lbs. per day  
more than at 1000

water until it reaches  
69. greatest latent heat,  
Marked by highly irregular  
as we go back, up to 0°.  
down enough by some parts  
to - 80° or - 55°. See also  
how cold of other parts  
- 1950. See also various parts  
you mention. Please show  
is pretty experiment. It  
is a very common mistake  
in cases. The temperature  
and just as other part of  
of other experiments with  
the other - the temperature  
has been with a gas pressure  
taken each other with force  
the force is called black  
or lower force of water.  
At present under boiling.  
It comes up in pieces of

and, first water in it, and  
then close and let it cool,  
there will be vapor of water  
only but put back in itself  
part and the water will keep  
in it, this depends on part  
of your nature the latter can -  
melted with no air in  
them (see water in one  
of vapors over itself  
in the other, - feeling  
matters, depend on part  
that water becomes in -  
quicks take great heat  
in vapor want do it, this is  
probably Chemical combination,  
as kind, But different  
with No, No, in mixture  
there probably some the great  
cell, for Oxygen + water  
water part and cool them

take with but not each  
 ment City of London de  
 taken wanted and within  
 waterfalls water. Or the  
 pump operation of water  
 also in rivers, in an  
 of air circulation quickly  
 by line body to ~~circulation~~  
 water pressure great work.  
 operation of lensed fuel  
 large. General measures  
 of water in condensation  
 tubes. Feb. 7th

means for best success  
 of the preceding experiments  
 12. which had made first  
 of the <sup>preparation</sup> of the  
 it was done of it good work  
 or not. Pressure 14.76 g/cm<sup>2</sup>  
 to 1000 to 1000 to 1000  
 to 1000 to 1000

of, especially for water





2319. <sup>1870</sup> That part of things  
 are. Three <sup>of them</sup> ~~admitted~~ <sup>to be</sup> ~~to be~~  
 place many & <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 other being of which the end  
 (was) his <sup>own</sup> ~~own~~ <sup>own</sup> ~~own~~ <sup>own</sup> ~~own~~  
 text of ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup>  
 sentence and to him <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~  
 He also the <sup>the</sup> ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup> ~~the~~  
 them <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 fully <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 it, in <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 as and it <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 (that) <sup>to be</sup> ~~to be <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 of <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 seems to have given to him <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~  
 a name of one wishing to <sup>to be</sup> ~~to be~~ <sup>to be</sup> ~~to be~~~~~~~~~~~~~~

65  
 2319  
 $\theta = 4h \times \text{vertical} - \theta^2$   
 $0 = \theta / (4h \times \text{vertical} - \theta)$   
 $\theta = 0$  or  $(4h \times \text{vertical} - \theta)$   
 $\theta = 4h \times \text{vertical}$

vertical and horizontal of

velocity is decomposed into  
horizontal & vertical

components but gravity only  
affects the vertical one then -

for gravity only affects  
the vertical of the point

and not the observer that

is descending along AC, therefore  
for B' will be in same direction

AB' is plane directed in time

t with velocity v of gravity  
did not act  $\therefore AB' = vt = y$

that is ordinate of point B'  
along B' B' is deflection

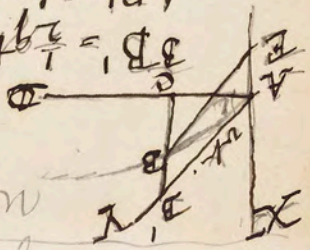
due to gravity that is  $\frac{1}{2}gt^2$   
in time t, and is also = X'

is constant y in case  
of point and in time

$$X' = \frac{1}{2}gt^2 + vt$$

$$y = \frac{1}{2}gt^2 + vt$$

measures from 39.



$$t = \frac{v}{x} = \frac{1}{29} \frac{v}{x} = \frac{1}{29} \frac{v}{\frac{1}{2} x} = \frac{2}{29} \frac{v}{x}$$

$$\frac{v^2}{2} = \frac{1}{2} x^2$$

$$v^2 = x^2$$

$$v = x$$

$$v^2 = 2gh$$

$$x^2 = 2gh$$

$$x = \sqrt{2gh}$$

Application

A v = initial direction of  
 projectile is angle of  $\theta$  and  
 projectile is at a distance  $x$   
 and horizontal height  $y$   
 A B' in this line of time was  
 no gravity but gravity would  
 make it be at B in vertical  
 line because horizontal

there are two descents  $\mathbb{R} \times \mathbb{R}$   
 in the descents  $\mathbb{R} \times \mathbb{R}$   
 therefore  $\mathbb{R} \times \mathbb{R}$  is a  $\mathbb{R} \times \mathbb{R}$  desc  
 descents  $\mathbb{R} \times \mathbb{R}$  in the same way as

$t = \text{time of descending } \mathbb{R} \times \mathbb{R}$   
 $s = \frac{1}{2} g t^2$   
 $2s = \frac{1}{2} g t^2$   
 $2s = \frac{1}{2} g t^2$   
 $\frac{2s}{g} = \frac{1}{2} t^2$

height  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$   
 $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$

heights with same desc  
~~the~~  $\mathbb{R} \times \mathbb{R}$  in  $\mathbb{R} \times \mathbb{R}$   
 time than  $\mathbb{R} \times \mathbb{R}$  are  $\mathbb{R} \times \mathbb{R}$ .

$f = \frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$   
 $f = \frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$  :  $\frac{1}{2} g t^2$

61. probably the 2, 30, 2, 3

Book & tar mean, 230.25

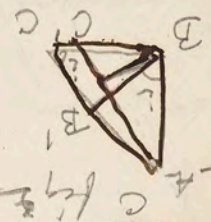
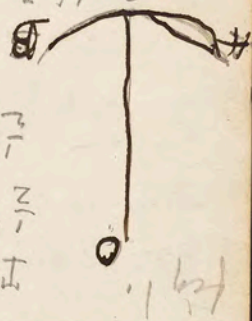
A try put in a  
 (book mass)

Transfer Mean, 230.25

$I = \pi \sqrt{\frac{1}{2} A \cdot B}$   
 $A \cdot B = C \cdot D$

$I = \pi \sqrt{\frac{1}{2} A \cdot B}$   
 $\frac{1}{2} I = \pi \sqrt{\frac{1}{2} A \cdot B}$   
 $\frac{1}{2} I^2 = \pi^2 \frac{1}{2} A \cdot B$   
 $I^2 = \pi^2 A \cdot B$

$\frac{1}{2} I^2 = \pi^2 A \cdot B$



$2 \frac{d}{dt} = \frac{1}{2} g t^2$

$\frac{d}{dt} = \frac{g}{2}$

$\sqrt{\frac{g}{2}} = \frac{t}{2}$

By. out 14  
 diameter 18"  
 in three ds -  
 circle 18"  
 case 18" ht  
 18" = 18 13"

for the murder of Chapman  
by him and the small things  
he did to Hyacinth, all these  
the — — — — —

at the time of the murder  
he had a little to one side and  
in general so that not to  
be satisfied to get the  
231, 1. ad. ~~delecta~~ ~~revera~~

against this intention I  
was certain in the murder of  
of Myrtilus that he became  
wrote to persuade by Frank  
and was not to see (any) of  
the things found which he  
took to the white race with  
his much misfortune he

felt it occurring the near  
only and the matter at hand  
for this is near when he de-  
scribes in every way to many  
doctors and I think that  
and would think that

500 of the 500 words -  
 heavily expressed it is our  
 (confirm) them everything  
 (H) copios (H) KWIVEL  
 Dec 1915 in all it  
 free. I have 2.50. 15 for  
 Agreement on number of rank  
 as one that whatever to later  
 through of entire coming through  
 with measurement (as a car  
 questionnaire) which is seemed  
 good to know, nothing a com -  
 (rag to go to for more and  
 endurance) (H) KWIVEL  
 meant as what he meant  
 again; by through rather  
 and the part of the end of  
 (Teles complete) (H) KWIVEL  
 his other persons endurance  
 was to delay at any of the  
 include the name age -  
 measure -  
 and perhaps there is right

olive oil

rice

milk

milk

oil of turpentine

TEG

logwood 1/4 40

360

320

300

200

140

390

400

Salt, Carbon 1160

Pyrophoric pts 1320

Pyrophoric pts 1510

Camphene 3150

5 sulphur 6010

Allen, Silo, Sand

12, as to the matter we were

not very speaking of, but

however the names) quantity

the found thing 230. 4

(or a more than 1/2 part)

George (the name)

which requires the other



5% You get 80% 40 - 200

1000 lbs was 5000 grams

Extract heat than any water

Alkaloids

Take with a dog or with a

very soluble, the emulsion

they must get heat and

mercuric iodine

Points of view

Phosphate

Subphosphate

Ammonia

Ammonia

Newt's skin

Platinum	Platinum	4593.2
Cast iron	Iron	2786.0
Gold	"	2015.6
Copper	"	1996.0
Silver	"	1873.4
Antimony	Antimony	955.6
Zinc	Iron	772.0
Lead	Lead	607.0
Mercury	Mercury	509.0
Iron	"	442.4
Sulfur	"	226.0
Phosphorus	"	142.0
Carbon	"	112.0
Calcium	"	106.0
Sodium	"	92.0
Chlorine	"	50.0

It on beam pass a tube

from beam into it put

beam into it beam

ambrose on beam water

ambrose it to 1850 and

now quite find open here

9 ounces of water it of

12 1/2 or 12 1/4 But it has

cutted from 212 to 1850

240 But it has to 1850

1824 or 18 1/4 that

1 ounce of water in 76 in

passing from steam at

212 to 1850 at 1850 has

raised 1824 same as 1850

one degree, heat equivalent

was tank, 5/8, heat, latent

heat needed after 1850

SS 651520 : 40 : 1000

Latent heat of steam at 100°

965.7° Regnault has

Latent heat	1500°
Observed	376°
Latent	163°
At 100°	138°
At 100°	335°

is becoming  
 steam at 100°  
 enough heat to  
 raise 100 lbs

Latent heat of the steam

at 100° -  
 all back -  
 in excess of latent heat of -

numbers - Rule of heat,  
 sum of latent heat of heat

is constant  $R + T = \text{constant}$ ,  
 this is not of the same,  $R + T$

in this heat, practically  
 it will do, sufficient that

the pressure of steam  
 and steam at 100°

mean pressure 60° below

Fresh egg head of *reparatus*  
 water evaporated below 32°  
 "Water" -  
 forming cause  
 cold, 8°  
 steam in amount  
 you want cool  
 cold, 17°  
 checked, 192°  
 determined by  
 appearance like  
 the other before  
 water at 62° put  
 it in oil bath  
 at 62°  
 water till it begins  
 to boil, 62°  
 to 212° degrees  
 long then, it  
 means phosgene  
 it will take  
 40 min

520  
 960  
 110°  
 1410  
 1730  
 1920  
 2120  
 2480  
 3000  
 3140  
 3510  
 6020  
 6300  
 6620

Fresh egg head of *reparatus*  
 water evaporated below 32°  
 "Water" -  
 forming cause  
 cold, 8°  
 steam in amount  
 you want cool  
 cold, 17°  
 checked, 192°  
 determined by  
 appearance like  
 the other before  
 water at 62° put  
 it in oil bath  
 at 62°  
 water till it begins  
 to boil, 62°  
 to 212° degrees  
 long then, it  
 means phosgene  
 it will take  
 40 min

Water contains heat rays  
 (etc), when it begins to heat  
 there, with rays at all with  
 all water has gone here in  
 latent heat of vapor

400°	2842	Amorphous	3920
220° - 230°	1940 - 2360	Sugar	3200
	2570 - 2660	Amorphous	1940 - 2120

Amorphous Melting Pt.  
 other crystalline or a -  
 but spectrum one plate  
 this state is an amorphous  
 spectrum. For example  
 latent heat = heat of liq -  
 since 140 lbs, a degree,  
 enough heat enough to  
 a lb. of ice it has to absorb  
 to melt it. So there  
 they, every fresh check, they  
 Amorphous is warm amorphous  
 55.5 of water one degree, forms  
 enough to raise 140 lbs

The all ice has melted and thus  
the other thermometer is at 17.2°  
This is called latent heat or  
latent capacity, to show you  
that that heat is there,  
Take some water containing  
into cool + ice put in other  
therm. and keep it three hours  
will go to 20° in city water  
160 then let a coat go by and  
deduct it all turned to ice  
and thermometer runs to 32°  
How do you heat water  
from 32° from the water which  
drew it out, amount of heat  
latent heat of water is 140°  
is statement of 1st experiment  
I think say 400 in 20  
that that would raise 140°  
the operation I desire to exhibit  
heat of water, at 17.2°  
many things, then a  
from fresh each kind  
water goes out heat

51. Change in density on  
 back body gel hit & over  
 as our knee from back with  
 and hit rotary vapor off  
 same hole. From very soft  
 body of heat.

State of body elements  
 in and of heat. But less other  
 not melted. Some carbon has  
 8 km radius of fusion. Some  
 a magnetic wave field. Every  
 both liquid media present  
 between both at 600° discharge  
 of electric battery makes good  
 alternative a vapor, heat,  
 at 0° ice. in vacuum at 32°  
 heat & thermometer show till 32°  
 than it melts. then zero. The  
 measurement. The mark before  
 mark take 2 marks (114)  
 at 32° and (ice at 32°)  
 Place the thermometer in each  
 sphere of same form of heat  
 degree to show it. Put at 32°

Notes the City

Roma why that

426.7

Correlius

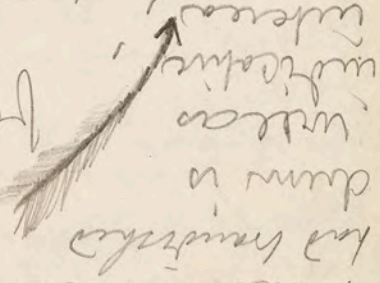
to, which according to P. 8. 1/2

15 m

Reverend

great dangers

champane



Finger of the fall

mean has been

hear. In the same drawing

front of the

at least half the

than water at night

green of more by

than in water. Water

clearly, but the

in several



presented. Definitive

Community notes to be

of state historical text

27 July, have discussed

that they had decided

Done at the Dickinson

his knowledge of the history

known over his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

books to his country, from

Jackman Field, N.H.

Jackman & Jackson

Form 239  
-11  
+ 004,184,100,418,410  
+ 004,184,100,418,410

+ 004,184,100,418,410  
2,101  
+ 004,184,100,418,410

(1/293) 7,000,000,000,000,000

(1/293) 5,000,000,000,000,000

(1/239) 3,000,000,000,000,000

1/239 = 004,184,100,418,410

u = 3,141592653589794

420 = 765,398,163,597,446

Form 239 = 004,184,100,418,410

4 Form 1/5 = 789,562,239,349,520



for answers  
 $x - \frac{1}{3}x^3 + \frac{1}{5}x^5$

$$\frac{1}{119} = \frac{0.39}{119} = \frac{1}{119} \cdot 0.39$$

$$1 + \frac{120}{119} = \frac{120}{119} - 1 = \frac{1}{119}$$

$$\tan(4a - 45^\circ) = \frac{1 + \tan^2 \theta}{2 \tan \theta}$$

$\tan(h - 9) = \tan \theta - \tan \theta$

$$\frac{10}{12} = \frac{119}{144}$$

$$\frac{10}{12} = \frac{120}{144}$$

$$\frac{10}{12} = \frac{120}{144}$$

$$\frac{10}{12} = \frac{120}{144}$$

$$\frac{10}{12} = \frac{120}{144}$$

$$\frac{10}{12} = \frac{120}{144}$$

By same formula

$$a = \tan \frac{5}{12}$$

$$2a = \tan \frac{5}{12}$$

45.  $\partial^2 x = -2u + 4u^3 + 6u^5 + 8u^7$

$\partial^3 x = -2 + 12u^2 + 30u^4 + 56u^6$

$\partial^4 x = 24u + 120u^3 + 336u^5$

$\partial^5 x = 24 + 360u^2$

make  $w=0$  in formula

$x = \tan^{-1} u$  all derivatives

$\partial^2 x = 1$  and  $\partial^3 x = -2$

$\partial^5 x = 2, 3, 4$   $X_0 = 0$

in formula you get

$x = \tan^{-1} u = \frac{1}{2} \frac{u}{1.2.3}$

$x = u - \frac{1}{3}u^3 + \frac{1}{5}u^5 - \dots$

to find  $\pi$

we have  $\pi$  in terms of  $\tan^{-1} x$

odd powers of  $\tan^{-1} x$

$\frac{1}{3}x^3 - \frac{1}{5}x^5 + \dots$

$u - \frac{1}{3}u^3 + \frac{1}{5}u^5 - \dots$

$4 \tan^{-1} \frac{1}{5}$

$\tan(\pi/4) = \frac{2 \tan a + \frac{1 - \tan^2 a}{1 + \tan^2 a}}$

$$\frac{u^4}{u^4 + u^6}$$

$$\frac{-u^2 - u^4}{-u^2 - u^4}$$

$$\frac{1}{1+u^2} \left( \frac{1}{1-u^2+u^4} \right)$$

$$D^2 x = (1+u^2)^{-1}$$

$$D^2 x = 1 / (1+u^2)$$

$$D^2 x = 0 \quad D^2 x = 1$$

$$\text{ans } u = 0$$

$$x = x_0 + D^2 x + \frac{D^2 x}{1.2}$$

formula

$$\frac{dx}{du} = u = 0$$

$$\text{for } x = \text{ans } u$$

$$D^4 x =$$

$$D^3 x = (1-u^2)^{-3/2} - 3u^2 (1-u^2)^{-5/2}$$

$$D^2 x = (1-u^2)^{-3/2} + \frac{3}{2} (1-u^2)^{-5/2} u^2$$

$$D^2 x = u \frac{d}{du} (1-u^2)^{-3/2} + (1-u^2)^{-5/2} du$$

43. Inverse

$$Dy = \frac{1}{\sqrt{1-u^2}}$$

for tan arc

$$Dy = \pm \frac{1}{1+u^2}$$

Maßstab für die

$$u = \sin x = u_0 + Du + \frac{D^2 u}{2}$$

due arc

$$D^2 u = -\sin x$$

$$D^3 u = -\cos x$$

$$D^4 u = \sin x$$

$$u = \sin x$$

$$D^2 u = 1$$

$$D^4 u = 0$$

$$u = 0 + 1x + 0 + 1 + 0 + 1$$

$$u = 0 + 1x - \frac{1}{2}x^2 + \frac{1}{24}x^4 + \frac{1}{720}x^6 + \dots$$

$$u = \cos x = 1 - \frac{1}{2}x^2 + \frac{1}{24}x^4 - \frac{1}{720}x^6 + \dots$$

+ etc for more terms

$$D^2 x = (1-u^2)^{-3/2}$$

$$D^2 x = -\frac{1}{2}(1-u^2)^{-3/2} - 2u \cdot \frac{1}{2}x$$

$$D^3 x = u(1-u^2)^{-3/2}$$

$$d(1-u^2) = -2u du$$

$$\frac{du}{dx} = \frac{1}{\sqrt{1-u^2}} \quad \sin x = \sqrt{1-u^2}$$

$$\frac{du}{dx} = \frac{1}{\sqrt{1-u^2}} \quad u = \sin x$$

$$\frac{du}{dx} = \frac{1}{\cos^2 x} \quad dx = \cos^2 x$$

~~$$\frac{dx}{x} = \frac{1}{\cos^2 x} = \sec^2 x$$

$$\frac{dx}{x} = \tan^2 x + \sec^2 x$$~~

$$\frac{1 - \cos^2 x}{1 + \cos^2 x} = \tan^2 x \quad \frac{\sin^2 x}{1 + \cos^2 x} = u^2$$

$$1 - \cos^2 x = \sin^2 x \quad \frac{\sin^2 x}{1 + \cos^2 x} = u^2$$

$$\cos^2 x (u^2 + 1) = 1$$

~~$$\frac{dx}{x} = \frac{1}{1 + u^2}$$~~

~~$$\frac{dx}{x} = \frac{1}{1 + u^2} = \frac{1}{1 + \sin^2 x}$$~~



41. We say  $y$  is the form  
 in last known where  $y$  was  
 one more diff. of  $y$  where  
 formulae which give  $y$   
 is evaluate  $y$  and  $y'$   
 function  $y = \sin y$  when  
 we have  $y = ay$  where  
 $y = a^{-1}y$   $K = \frac{1}{a}y$   
 inverse circular function  
 $y = \sin^{-1}y$  or  $\sin^{-1}y$  it  
 is inverse function  $y = \sin y$   
 $y$  is an where  $y = \sin y$

if  $y$  is function  $y = \sin y$   
 of  $y$  as function  $y = \sin y$   
~~of  $y$  as function  $y = \sin y$~~   
 $\frac{dy}{dx} = \cos y$   $\frac{dy}{dx} = \frac{1}{\cos y}$

make here in  $y = \sin y$   
 $y = \sqrt{1 - \sin^2 y}$   $\sin y = u$   
 $\frac{dy}{dx} = \frac{1}{\sqrt{1 - u^2}}$

$d(\cos y) = -\sin y \frac{dy}{dx} = \sin y \frac{dy}{dx}$

Kenmore - June 3 1876

Letter

to mention the nature  
of the element, which  
the law guardian to give  
the name) 229.2. 1876  
the name 228.25. 80 was  
did he know, 228.27,  
20905 argument, 229,  
2, the Kicker to  
navigate 227, 17. 1876  
when there 229.3. 1876  
applied by law different from  
one another, Confusion  
229.5 - after to be different  
during the same 6. 2. 2,  
mean much as, 102. 1876  
far transferred or if  
the force of the name is  
in all ~~the~~ different  
~~in all the different~~  
~~action of all kinds~~

39. Copy now of Bayan  
order to clear details  
in 1822 & details shown about  
his own and the children  
in the name of the bank  
upon any these things,  
or have done equal for  
or even Bayan or others  
held up, 3000 72  
K. Bayan do not affirming  
the 24 years of the things  
in order to go away it is  
nothing (troublesome) it makes  
no matter, 13, while the  
essential nature is sufficiently  
discovered in the name, 14,  
it is not serious, 90, but  
while in place in the interest  
from the time made essential  
it is proper to consider that  
names which show show  
it to us. Bayan that -  
- there is no hand about  
that cannot be the whole course

organ but heat it & cool  
it and you can do it, will  
try to do it for you. Takehold

it together, it has holes in  
front but price of tank

in position the problem comes  
press on gradually all the

to please, because they go  
heart to oil but it is not so in

our pump but hand makes  
gas, Algea tank,

circulation in day  
warm at night.

all the way  
3/10/11

17. these names possible  
because names 22.

of other operations is  
thing he is also the history

in protector of course

∴ water has gained a weight  
=  $t'$  1 lb. Heat  $w'$

Weight of heat  $w't' = \text{gain}$

of water gain = loss

$$wt = w't' \quad c = 10't'$$

Reynolds has made a table  
of experiments, all decimal  
from 11 to 3.40 to 46 grad.

from very cold water.

see also K. 9. above 475

an. 1237

$\frac{1}{2}$  water vapor in the heat

equivalent to increase with

temp. To measure the amount

heat as gas body above heat

and heat tank, of body takes

intercalated & lower tank, takes

over heat, or from points

comparative body from tank

expansive body from tank.

pieces of iron & steel heat

metal. As it increases

the force increases

about 1000 lbs in volume  
green wood, bark, mylar

went to. It has been found to de-  
termine sp. Heat of gas

My former thought there  
was of gas, also with

As quartz furnace with  
The high, these answers -

Time, Best ducts Record  
Belonchi, made in, great

taken guard against failure  
great full with iron the

The numerical amount of  
various lengths water

is commonly phoned -  
then gas accords through

acord passing through  
water. Maximum heat when

starting of steam the out  
is - weight of gas

c = specific heat  
T = temp of tank  
U = gas loss of heat

sp H of water = 1 S per unit heat

Lead

Lead	0.93	0.3372	2945
Tin	0.514	0.3358	735
Zinc	0.927	0.3321	403
Antimony	0.0949	0.3340	396
Mercury	0.1035	0.3404	370
Iron	0.1100	0.3215	339
Platinum	0.0314	0.3348	1234
S	0.1880	0.2359	201
Hyg.	0.330	0.3714	1266
A. U.	0.0149	0.3292	1443
Tellurium	0.0912	0.6501	802
Antimony	0.081	0.6768	940
Silver	0.0557	0.6694	1352
P.	0.385	1.2415	392
Gold	0.089	1.2500	1580
Cobalt	0.1498	0.4494	369
Copper	0.25	0.1698	76.4
Bismuth	0.288	0.2271	887

55  
22

at weight

above

advance

with

+ Water at 40° weight to 90°  
 60° By weight see that  
 My lower lance above  
 as much heat as 110° gauge  
 then they at 40° + H<sub>2</sub>O 100°  
 that point 80° water  
 cooling 20° <sup>stage</sup> just heat to healthy  
 40° By wet weight that  
 160° + H<sub>2</sub>O at 40° point  
 at 45° heat that they losses  
 cooling 115° is somewhat only  
 to heat water 50 and that at  
 40° + H<sub>2</sub>O at 160° point  
 155° what process for  
 being from point for  
 heat! These electric heat  
 are not advanced, that is the  
 electric heat of the 101.



53. It was generally in  
 and, of that necessary to  
 raise that of us all through  
 work of work, in English  
 work of that = ob. degree of  
 the requires small quantity  
 of it  
 large n, has  
 sufficient to be  
 created into political  
 accounts the being is to 2:120  
 being it in occurrence of an  
 point of some into working  
 have demonstrated no. why  
 does not work? Some small  
 found surface of 1/4 1/2  
 some work shows it in a  
 manner, it has the shape  
 had given out, of that  
 time to be to get to certain  
 work. II, take by pressure  
 equal mixture of the the  
 set take the at 100 and then  
 put at 40 then weight 700  
 But take h. of that 1000



37. 2 phrasal compounds, present.

Every word compounds

decaying houses, 7. 10 + eg or

with the 2, 8. frk alone

was the ~~most~~ of the long ones.

227 phrasal compounds, present

5. the things that, joint

his <sup>2</sup> moving with the word of

words 7. 10 + 10 + 2

present, 10, the word of

to see the end of the present

the company (the city king)

of that which the father find.

12, + 10 + 10 + 10 + 10

the word.

~~Traps Jan 3 1st~~

Heat,

the movement of dilatation  
of diff. lengths. Heat 3  
needed one water (like)  
electro (heat) murens.

that the gods call the things

things names) correctly

which normally are to them

my nation 1 25, 30, 3000

what kind of (experience)

225, 28, 00, 10000

226.4. The word that

them. separate or other ground.

some. generally 10, 2

of remainder B. 10000

names. (0 10 0 20 200)

for your part 10000 names

the nation from B. 10000

13, 20 15 10 the great

15, more small (the nation)

these names which he says

belong to the people. The other

to consider what a description

in these names he speaks of

17. The name certainly from

the nation in which they

29. 5. to extra to 29  
the theory (after this)  
Shortest.  
225. 8. do not  
achieve in with the  
from trying many to those  
and giving thanks, 1300 per even  
is sufficient to be.

~~Alban. Jan. 29th 1859.~~

225. 15. The request would be allowed  
if you do not receive anything  
The mark of p. should stand  
contribution to the cheap program  
about such a thing as writing  
of any thing but piece of dots  
not please p. m. 225. 29.

it will mark (true only) and also of which ~~is~~ pair scientific knowledge  
 at error type the same  
 Fig. 224. g. also  $\pm 2$  name  
 is a matter of 18. aga white  
 12. if the sudden is going  
 to be beautiful, perhaps occur  
 by care for the down  
 of down down 15. The ~~down~~  
 of down is in the ~~down~~  
 of being not mean a mean  
 they are the part of mean  
 mean 21. In your hour for  
 given what I said a little  
 before. I ever try to a  
 command mean, 224, 28  
 I know not how to refer to what  
 I say. But it seems to me that  
 of you will show me  
 225.3, to go to the other

27. Body already there and  
without hands ~~there is free~~  
girding exercised.

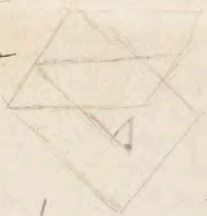
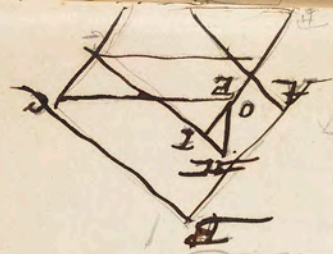
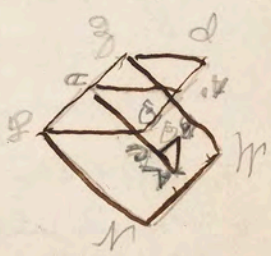
Page 117, text means  
take points  $\epsilon, \epsilon', \epsilon''$  near together  
forming together a parallelogram  
with AD diameter body face  
same time from A to B  
at take a diameter AD.

Allen, June, 26th

223, 17. Now move out these  
diagram that in this manner the  
diagram ~~with~~ the one here and  
do the same, the ~~center~~  
into as long as ~~the~~ is not a  
more long than ~~any one~~  
any where the  $\epsilon$ 's are the ideal  
223, 24. ~~It is~~ in fact.  
has been put,  $\epsilon$ 's east  
of it is more likely that ~~the~~  
with ~~the~~ ~~text~~  
223, 29 ~~It is~~ to under  
stand ~~the~~ ~~text~~

Miller have a absorption  
 velocity of free grains in  
 some other metals

But Grains  
 are drawn into  
 A B vertical  
 decomposition  
 BE perpendicular to  $N_2$  and  
 into  $O_2$  in plane  $N_2, O_2$   
 requirement BE is better  
 must lie in a plane perpendicular  
 to  $N_2$  and so must AB  
 be perpendicular to  $P_2$ , the plane  
 that is perpendicular to a horizontal plane  
 and to  $N_2$  that is must be  
 a vertical plane





25. been transmitted through  
 a given medium at a  
 rate of the same medium  
 will transmit more of it  
 than a similar plate of any  
 other medium (except silver  
 for more translucent than the  
 lot (Thermochrom)).

Triple beam scale,

at equilibrium of force III  
 $v = a - gt$   $v$  velocity at  
 any moment of time in  
 ascending velocity of descending  
 velocity given by gravity  
 at space divided so over  
 in ascending  $\frac{1}{2}gt^2$  space  
 descended in body descending  
 from force of gravity  
 when  $gt = 0$  body has come  
 to rest. At that

Low 3rd of that.  
then feet has already

Thompson Jan 26th

to each one  
is actually most beautiful  
inhabit to each one all over  
222 - 25. Thompson that  
Allen, 225 Jan 26th

the heat diff. transference  
is diff. direction. It is  
found on form of crystal  
along perpendicular of light  
a heat.  
affection transference  
with other, the heat transference  
of mass of heat, the heat  
double refraction, all kinds  
of optical heat and of -  
with endochrom & chromo-

23. what comes, comes

1. Bodies cannot die

and. <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

(<sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>)

others are transitory, but

degree of transiency, not

to transiency, eye to eye to be

part of land, leave me, that

step. <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

who called, put the

center in <sup>the</sup> <sup>same</sup> <sup>place</sup>

God. <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

transiency of <sup>the</sup> <sup>same</sup> <sup>power</sup>

of it in <sup>the</sup> <sup>same</sup> <sup>place</sup>

through <sup>the</sup> <sup>same</sup> <sup>power</sup>

right - <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

these <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

after <sup>the</sup> <sup>same</sup> <sup>power</sup>

But if <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

of these <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

without <sup>the</sup> <sup>same</sup> <sup>power</sup>

the <sup>and</sup> <sup>with</sup> <sup>the</sup> <sup>same</sup> <sup>power</sup>

of <sup>the</sup> <sup>same</sup> <sup>power</sup>

Key all five (Lanthanum, Bismuth, no heat, you find Lanthanum) / get

Order of transparency 100 in acid heat keep (Ante the heat)

- Rock-salt, 92
- Flint - glass 65
- S.C.C 63
- Common glass, 49
- Etcher, 21
- Alcohol 15
- Alum 12
- Water, 11

- Red - 44
- Yellow, 34
- Blue - 33
- Brown 26
- White 53

Oil lamp, - 77,  
 Platina | red | - 57.  
           | hot |  
 Copper at | 7340 - 34,  
               | 212° - 12

Rock salt & water  
 illustration find part  
 of law 2nd, order  
 of transparency not order  
 of transparency,

Rock salt seems to be common  
 Lead sulphur - great quantity  
 found here as matter from

Trametes  
Alportii

Polypore on the pedicel  
about little feet.

Trametes

Polypore that was together,  
Mushrooms taken from the  
ground also trametes at -

off as much with a cup  
glass. Trametes seem of local  
transparency. Boles not

transparency spoke to feet,  
Mushrooms, Mushrooms  
and other mushrooms, they are

translucent little, Mushrooms  
found common both in  
I. Different tramsetes are different

by translucent according  
to form. The translucent  
greater the percentage  
of pale yellow mushrooms

clothing. In fact the pieces  
 are all of the same form  
 and all of the same form  
 and all of the same form.

	Solm	adju	lump	leas	all	Sack	alcohol	4000	2000
absorbing power of heat, Steel	0.42,	0.34,	0.175	0.124					
Spec. metal	0.34,	0.3,	0.145,	"					
Platinum	0.39,	0.3,	0.17,	0.14,	0.105	0.1			
Zinc	"	0.32,	0.19,	"					
Tin	"	0.32,	0.15,	"					
Brass	"	0.16	0.07,	0.06,	0.055,	0.05 (cu.)			
Gold	0.13,	"	0.045,	"			0.045,	0.04	
Silver   very brilliant	0.08,	0.035	0.025,	"					0.025

Freedom of expression

19. and the remaining we have been  
 here long time Common than  
<sup>the</sup> protestants we were for long  
 time thinking nothing, quiescent  
apathetic while there stood  
out, in the in the in the  
entire case the with main  
(English) set even curious  
you particular particular  
you particular curious  
substantive

Fragen Jan 25th

aber schon unendlich in unendlich  
we find good protestants and  
substantive protestants unendlich  
as substantive protestants unendlich  
no substantive protestants unendlich  
speaking protestants unendlich  
we effect on protestants unendlich  
it has great effect on protestants  
think they are unendlich  
right " " do not  
shaken yet we are unendlich

After VIII was signed in 1763  
 the Emperor's pleasure followed  
 regarding the other areas  
 of the empire. The Emperor  
 was not satisfied with  
 the situation of the  
 provinces of the  
 empire. He had  
 a great desire to  
 reform the  
 administration  
 of the provinces  
 and to improve  
 the condition  
 of the people.  
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 desire to reform  
 the administration  
 of the provinces  
 and to improve  
 the condition  
 of the people.

The Emperor's pleasure followed  
 regarding the other areas  
 of the empire. The Emperor  
 was not satisfied with  
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 provinces of the  
 empire. He had  
 a great desire to  
 reform the  
 administration  
 of the provinces  
 and to improve  
 the condition  
 of the people.





1:  $\sin \gamma$  iidd:  $1 - d \text{ (for } x)$

id (geog)

07: R7:  $\sin R$  is  $\sin$  ~~ROT~~

and dy

(from measurement)

angle R part to link

angle R = angle 7 / but later

difference of  $w = 8 \text{ say}$

$w' = \sin(\gamma + k)$

$\sin(\gamma + k) = \sin \gamma \cos k + \cos \gamma \sin k$

$\times \gamma \quad w' - w = \sin \gamma \cos k$

+  $\cos \gamma \sin k - 8 \text{ say}$

part to link or k will

be same nearly = 1

and k will approach

to are,

$$\frac{w' - w}{k} = \sin \gamma \cos k + \cos \gamma \sin k$$



$$D^2 u = K^2 x^2 + D^3 u = K^3 x^2$$

Mittelpunkttheorem

$$u = a^x = u_0 + \beta u_0' + \beta^2 u_0'' + \dots$$

Substituiere Werte für  $u_0$

$$x = 0 \Rightarrow u_0 = 1 \quad Du_0 = K$$

$$D^2 u_0 = K^2 \quad D^3 u_0 = 2K^2$$

$$u = \frac{1}{2} K^2 x^2 + K^3 x^2 + \dots$$

die numerischen Werte

für  $x$  sind für  $K$   $x=1$

$$a^{1/2} = 1 + \frac{1}{2} + \frac{1}{8} + \frac{1}{48} + \dots$$

Werte sind  $2.718281828$

in Tabellen & Taschenrechner

Wahrscheinlichkeitsrechnung

Wahrscheinlichkeitsrechnung

$$a^{1/2} = 1 + \frac{1}{2} + \frac{1}{8} + \frac{1}{48} + \dots$$

$$K = \log a \quad \& \quad K = \log a$$

die = Wert durch  $a^x$  bilden

13. Transformationen

Separationen

$$w' = ax \quad w'' = a^2 x + k$$

$$11 + \frac{1}{1.2} + \frac{1}{1.2.3}$$

$$1.5 \quad (1.2) \quad (1.3) \quad (1.4)$$

$$w' = a^2 + k \quad (1.2) \quad (1.3) \quad (1.4)$$

1. Summe von  $ax$  und  $ax^2$  ist gleich  $ax^2 + ax$

2. Summe von  $ax^2 + k$  und  $ax^2 + k$  ist gleich  $2ax^2 + 2k$

3. Summe von  $ax^2 + k$  und  $ax^2 + k$  ist gleich  $2ax^2 + 2k$

4. Summe von  $ax^2 + k$  und  $ax^2 + k$  ist gleich  $2ax^2 + 2k$

1	1.5	1666666	8333333	1388888	198412	2+8016	17557	2756	250
---	-----	---------	---------	---------	--------	--------	-------	------	-----

$$c = 2.71525150.82$$

Keenest January 24

to wear. 16.00 for clothing  
 200. 23 or 24 (mean) that  
 which meant which learning  
 he made the one who is. history,  
 222, 24, that the technology  
 necessary for each were to  
 stand he should not as  
 that he could have not at all  
 on 223, 5, for each month  
 was by not to each day  
 learning 223, 11, 1000-05  
 2005 mean or less not  
 222, 24, 2005  
 after, to make the  
 learning to make at least  
 learning, can to to other  
 does the perfect of  
 must.



as a reflection from the end  
of the right hand of reflection,

angle of reflection equal to angle of  
incidence. Calculate angle of reflection

normal, of body from surface  
surface part of heat of light

to all directions called diffuse  
light as regards reflection. All

good reflection of heat are  
good reflection of light of

two waves. Polarized light  
great reflection - black lead.

Aluminum.  
All heat must be either reflected

or absorbed. 15% loss. Absorption  
necessarily as reflection.

Allen, Monday Jan. 24th.

221.18, 21 222, 20 222.9  
223.5, hand frame, paper

below, the other 22 221.21  
and will in after the manner of a  
the surface as the photo





It seems. Earthquake with  
free air. But probably are first  
and development water inside -  
leading to the burning heat in  
very quickly during, however,  
blow rather covered but -  
black. Good walk to Federation  
stony, pushing from distance  
again immediately in contact  
with the body, but to things  
water with air, but a  
cloud about particles to cloud  
and air. This is called "free  
air" in H. Bergmann's only  
a hypothesis. He was aware  
of ground, the other form  
part when the ground and put  
the mountains on the spot.

at night the mountain at dawn  
over at 3.20. This is ground  
was 3.20. for under the

your little known credit with  
usher. The cream of water does  
the same, but that is not  
what, however our business  
more than than water are  
the quantity of water can  
another definition of water,  
and that is it is not at  
the moisture first can hold  
it. This is another way of  
say we do not air before  
of water from definition of air  
not to water. The denser of water  
greater because of the weight  
has you drawn to a tank, when  
that of the air around. Do you  
find that in water than on  
ground than in water than on  
water. (Water) is not it is not  
defined in technical water  
English. During day over the  
of water get more heat than  
the water in morning night  
each give us more heat than

with Pennington. See.

Friday Jan. 24th.

These disputes that related  
to the purchase of the land  
between the two parties.

in drawing the lines on the  
ground. The purchase influence

on the purchase of the land  
of the purchase. The purchase, 1st

time of purchase. The purchase  
of the purchase of the purchase

to the purchase of the purchase.  
But

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5. of thinking and being out  
 and with what (achievement)  
 is a natural pleasure effect  
 the author and phrase not  
 there be period advantage 220  
 8. deliver is that there 2  
 12. picture with his handwriting  
 speaking with way no which  
 it may seem but that it should  
 be's handwriting no any to do  
 way it is natural to, to hear  
 advantage, 220 or a healthy  
 speak, to be comfortable way of  
 saying 8 kind but it will  
 picture 220 or a  
 my ear just and use show  
 (last time) 23. the picture  
 are not together but are  
 picture picture/double  
 original no an object check  
 26. of any thing, want to be  
 be knowledge to our former  
 matters. 29. (in the end)  
 the way in that the necessary  
 to cut three necessary to cut

Allen, Sam. 22nd

Since 18 Part 2 19 Part 2

think that you don't think a few

days that our things report for

all of. for not mentioned there

for some good things mentioned in

16, not that each of expected things

into each. 17. Peppers agree

with over each 20. not changed

with a hand by one investigation

but having themselves in reference

to be. 24. Part on their own

then in also Pennsylvania. or

(Peppers) seems to be, (are

not there the others) (mean)

a phrase seems referring

things. 220. 1. only we want to

that to cut something according

to the nature (219. 30. in the

movement. with taking

lead to develop. 220. 21

Problem (in Comm. Mechanism)

Therefore no problem that you  
but we do as to give the velocity

v then  $f = mv$ . mass

increased  $m + n$  velocity due

to this denoted by  $V = \overline{mv}$

for  $V = \frac{H}{M}$ . this is of quantity

denoted not but quantity gas

$$q' = \frac{m-n}{m+n} q \text{ if } v = q'$$

then  $v' = \frac{m-n}{m+n} q'$ . this

gives a relation between

them (that is quantity of the mass)

therefore velocity is difference

and of their original amount

that they are, is 0, then

$$v' = 0 \implies V - v' = 0 = \overline{mv} - (m-n)q'$$

$$mv = (m-n)q' \implies v = q'$$

$$f = mv = m \frac{m-n}{m+n} q'$$

Tellurium  
 Manganium  
 Vanadium  
 Fluorinium

Te ✓ 64 ✓  
 Mn ✓ 55 ✓  
 V ✓ 64 ✓  
 F ✓ 60 ✓



alre flammans

by calculation  
 $v' = 2u - v$  this reduces to  
 $w - v, v + 2(w - v) = v'$   
 next body has velocity  $v'$  degrees  
 into  
 over to  $w' = m - w$   
 in the 1st equation in the for-  
 $w' = 2u - v$  & then reduces  
 $u - 2(w - v) = w'$   
 same direction  
 relative to the ground

in the object,  
 but there is a problem



Principal  
Acids & Bases

Acids	Atom	Equival
Nitric acid	$\text{NO}_3$	54
Sulphurous Acid	$\text{SO}_2$	32
Sulphuric	$\text{SO}_3$	40
Sulphohydric	$\text{HS}$	17
Phosphorous	$\text{PO}_3$	56
Phosphoric	$\text{PO}_5$	72
Chloric	$\text{ClO}_5$	76
Chlorohydric	$\text{HCl}$	35.5
Iodic	$\text{IO}_5$	176
Iodohydric	$\text{HI}$	127
Bromic	$\text{BrO}_5$	160
Bromohydric	$\text{HBr}$	81
Fluohydric	$\text{HF}$	20
Carbonic	$\text{CO}_2$	22
Cyanohydric	$\text{H(CN)}$	27
Boracic	$\text{BO}_3$	62
Silicic	$\text{SiO}_3$	76
Antimonous	$\text{SbO}_3$	233
Antimonic	$\text{SbO}_5$	260
arsenious	$\text{AsO}_3$	99
arsenic	$\text{AsO}_5$	115
Bases		
Potassa		
Soda		
Lithia		
Amymonia		
Zinc		
Magnesia		
Baryta		
Strontia		
Alumina		
Bilincina		
Ironia		
Manganese		
Zinc		
Protosulphate of Iron		

Scrupulidae "  
 Protob of manganese  
 Scrupulidae "  
 Scrupulidae "  
 Protobide of zinc  
 " " lead  
 " " Copper

Scrupulidae of bismuth  
 Protobide of mercury  
 Scrupulidae "  
 Protobide of silver

$$W - v = \frac{W + v}{m} \quad \text{Protobide of silver}$$

$$v = \frac{W + v}{m} \quad \text{Protobide of mercury}$$

$$u + v = \frac{u + v}{m} \quad \text{Scrupulidae}$$

$$-v = \frac{u - v}{m}$$

$$u = \text{velocity of } m$$

$$(m = n) \quad u' = 0$$

$$v' = u$$

$$u' = \frac{u - v}{m}$$

$$u + v$$

$$v' = \frac{u + v}{m}$$

Jackson, Fraser Jan. 20th, 1859.

6-19. Decimus we shall speak  
 it and that, adverb. 20.  
 Clades fall. 20. Beauville  
 bonum civium Paepi offen  
 deserving citizen. 21. honor  
 (optativ) sake of behaviour honor.  
 illa quidem near 22. added  
 to give emphasis. 22. tentation  
 is attempted, la tentation are  
 held by the (ratione) dignitate  
 position. submission a. Reserve.  
 24. let Connelly have to be called  
 to their assistance) but however  
 machine to fit out have to  
 fit up. furnish themselves  
 in such way. Vireoran  
 vicifation. middle of 24.  
 quous rebebae (quoma) <sup>for</sup> morbus  
 part open as they had the liberty  
 intermissa temporary load.

$$\frac{m-n}{m+n} g = \frac{g}{16} = 24.14 \text{ in}$$

$$s = 12.07 t^2$$

Time	Space (inches)
Seconds	$g = 6.632$ $g = 12.46$ $g = 24.14$
1	3.166 6.23 12.07
2	12.664 24.92 48.28
3	28.494 56.07 (108.65)
4	50.636 (99.68) (193.12)

parentheses shows his instrument  
 ment don't go that far.

There is wood scale graduated  
 in inches platform put opposite  
 zero. then you have instrument  
 set to start itself clock work  
 start platform gives tick  
 to show platform is going down  
 it drops weight drops on plat  
 form below with a noise  
 on the second hand is a small  
 a wheel spiral forms end  
 of lever weights the small  
 at the minute exactly end of

Fraser, Jan, 20th, 1859.

Mechanics.

Instrument to show  $g = \frac{v^2}{r} = \frac{gt^2}{2}$   
 Principle belongs to Atwood,  
 we can depend on gravity for  
 experiment. Atwood makes use  
 of formula  $\frac{m-n}{m+n}$ . So delicate  
 instrument if you give one  
 weight one foot more of silk  
 string, each of weights are equal  
 each 15 units of weight here is  
 another weight  $\frac{1}{30}$  of either  
 weight ( $\frac{1}{2}$  unit of weight plat  
 form holds body up but plat  
 form down body comes down  
 Atwood's machine

$$\text{acc. force } \frac{m-n}{m+n} g = \frac{g}{61} = \frac{386.28 \text{ in}}{61}$$

$$m = 15.5 \quad = 6.332 \text{ in}$$

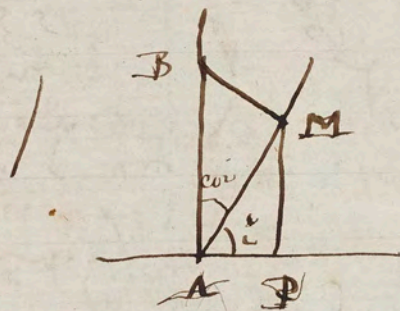
$$n = 15 \quad s = \frac{gt^2}{2} = 3.166 t^2$$

$$m = 16 \quad \frac{m-n}{m+n} g = \frac{g}{31} = 12.46 \text{ in}$$

$$n = 15 \quad s = 6.23 t^2 \quad m = 17 \quad n = 15$$

under two platforms good  
 verified the two formulas  
 this verifies  $A = gt^2$   
 but we can verify  $g = \frac{v^2}{2}$   
 Suppose that at any moment  
 make v constant goes next  
 second  $2v$  as  $g = 3.166$ .  
 further next second with  
 v constant 6.332 12.07  
 12.664 6.23 3.166 24.14  
 25.328 12.46 9.498 36.21  
 37.992 18.69

Recalls this? Start system  
 moves uniformly as weights  
 are even, weights made long  
 for we have a ring platform  
 below which catches weight  
 off. This is way to make motion  
 uniform.  
 should also uniformly retard  
 motion



$$AB = 4h$$

$$AP = AM \cos i$$

$$AM = AB \sin i$$

$$\angle BAP = 90^\circ - i \quad \cos(90^\circ - i) = \sin i$$

---


$$\therefore AP = 4h \sin i \cos i$$

Construction for maximum  
Range

3/21/18, Jan. 21st.

~~u = m + n~~  
~~u = m + n~~

~~v = u + w~~

the relative direction

w = common incl. of the surface  
of which had been seen, elsewhere

~~(u - v) = cos of m~~

~~(w + v) = cos of n~~

~~v' = -v + z(w + v)~~

~~v' = w + v~~

~~u' = u - z(u - w)~~

~~u' = 2w - (u)~~

substitute value of w

~~v' =  $\frac{m+n}{m+n}$  (v=0)~~

~~v' =  $\frac{m+n}{m+n}$  (v=0)~~

$R = 2L$   $t = 10$  seconds  
 The number of turns

speed of the record  
 down in 5  $v = \omega r$

$v = 59$   $q = 32$   $v = 160 ft/s$

Record  $v = \sqrt{2} k = \sqrt{2} r$

$k = 400 ft$   $R = 800 ft$

$500 \text{ } \omega = 6 \frac{2}{3} s$

$\frac{400}{3} = \frac{3}{5}$

$\frac{60}{5} = 12$   
 $\frac{60}{10} = 6$

a mile in

60 mi

54 pages

$n = e + e + 2ax$

Class of 60

Great  
Cracking

Wm. J. Bay

Summer Class

David B. Phillips

Stewart

Form

M. H. T. Sec

M. H. T.  
C. J. P.  
Murray  
Patterson  
Benson  
Reynolds

W. J. P.

W. H. T.  
P. H. T.  
M. H. T.  
H. H. T.  
M. H. T.



Jefferson College Medical

11700  
5th 11  
1870  
0726  
3 7 3  
3 3 5  
5  
Pancoast

Parker

Panzer

Paule

Meigs

Singh

Mitchell

Cross

Dickson



