

1871

Journal

1871

Pullatti note L. 16
Date 18 Nov in 3 months
One 19 Feb

To W. Brooke 20 J
Date 10 Nov
One 19 Feb

To John Capost
for 2 12 G. Date 30 Dec
One 19 Feb

To S. M. one note for 12 12
One 25 Jan

To W. Bridge note 5 15
One about 29 Jan

To W. Brooke 77 J. notes
One Jan

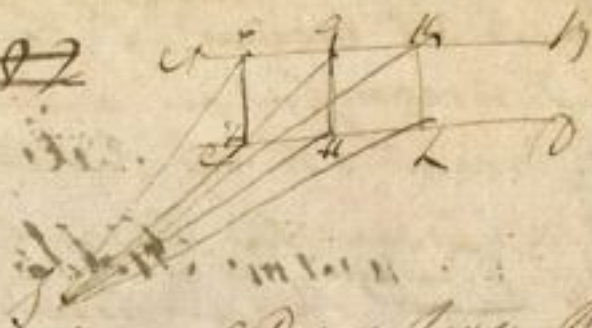
19 Jan
Quarterly

To W. Wateri of note
Date 25 Jan for 10 J
in two months

To Dillo for 10 J
Date 25 Jan in Jan 18
25 May

Mr Maxwell
No 10 Great Turnstile
Lincoln's Inn Fields

~~2002~~



Mathematics

As an $\angle D$ are two parts
lines EZ, GZ & on paper
I in any point, viz. the po-
sition of the perpendicular
to make the angle at
I a maximum

2003. Bacon de Tortura

of the Bacon a description given
in one of the Pyramids
of three miles distance
The \angle appeared so small that
he thought he would almost
have touched it. At one hundred

must
appear it seems to seem
and magnified on a nearer
approach. At six hundred
it appears the biggest. At
two ^{hundred} feet the perpendicular
height filled the vertical angle
At a nearer approach this
angle embraces only a part
of the object, and at the distance
of one hundred paces it took
in but $\frac{1}{2}$ of the object.

— Hence every object which
exceeds the chord of the vertical
rays appears greater, and that
which does not fill them less
than it really is. This prin-
ciple might be applied to
probable buildings, were the
best point of sight to regulate

their proportions. The Colonel
of the Louvre has apparently
concerned in some the
pulling down of the houses
which forced us to wear it
too near.

~~From~~ From Procopius's account
it appears that a canal
was actually cut thro'
the Isthmus of Suez. The
Engineers of Constantine
of Persia were afraid
of the red sea overflowing
the lower Egypt. The
land is extremely favorable
for such a canal, and the
distance not more than
12 Leagues —

Engineering

War
Modern

~~1775~~. The Turks at the
restoration of war have
a ceremony similar to
that of ending the Excommunication

Miscellaneous

~~1776~~. The Plague in Egypt
always appears first in
Alexandria, and seldom ex-
tends to Cairo - Senon D. J.
Munk is imported from
Constantinople in the old
clothes bought there by the
Jews -

Geography

~~1777~~. The Straits of the Darda-
nells are in some places
not more than 700 yards
wide

~~2008~~ Castrum is in now
found but Castra the
reason is that a Camp
consisted of a number
of smaller Divisions each
of which was called castra
Island

~~2009~~ It is said that
land is colder since cut-
ting down the wood and
churning the ground, if so

give the cause
+ Fair had conductors of heat
~~2010~~ The invention of the

Isabonice is commonly
attributed to other
afterwards Deified under
the form of the Goddess of

Wm. M. M. M.

Dr. History

Mathematics

Justice with Scales in her
hand, and the Euphemisms
stuffed placed among the
constellations - reason -
- The Molue Perseus is
mentioned by Aristotle under
the name of Qadaya -
- Scales with unequal
arms were used in ancient
times hence Aristotle observes that
Zygostatai or officers to we-
igh the aure, were appointed
The Jewish standards were
kept with great religious
ceremony in the Sanctuary
and the care committed to
the priests and Levites
1 Chron: 23. 29, Exod: 30, 3
Levit: 27-25

Capellus mentions a bat
at Sudan which would seem
with the two parts of a Green
~~egg~~. The Invention of the
Lever is ascribed to Archimedes
and represented by his
Tribute. In Greek both
are called by the same
name viz

Archimedi

2097 In the Lever W: P::

Archimedi

A: D: d This property is
mentioned by Aristotle.
Archimedes - Petruvius
Aristotle calls the fulcrum
Hypomochlion, Petruvius
Aspio - Ubaldo Fulcrum
Lum, Dan: Barbarus, Sabel
Lum

~~209~~ The axis in Peru-
chis is by Nuttall
called Onos Musk: Ch: 14

~~210~~ Two further above and
Two below was called
by Nuttall Dispartos,

Three Turpartos. Musk: 19
Latin Cochlea pulley

~~211~~ It is said that Steel
conductors have this
posit of opinion converted
into Steel after standing
a long time —

~~212~~ It is discovered that
that charcoal in powder
is best for channing Glass
or other vessels which have
a bad smell — Teeth —

Electricity

Miscell

[Faint, mostly illegible handwritten notes on the right page]

under stagnant water
clear - well probably
preserves water at such by
adding about 5 little very
cork - This by a fault
of Oxbowburgs -
Crests Journal

X

2097. It is planned to a
well project to work
the rule of three by play
like terms next to each
other -

McMem

X
2098. In teaching Geometry
Algebra very useful

PerMo

~~2099~~ What is the best
method of Determining
the parallelism of
the planes of Glass?
It is said that M. Sten-
doff can ascertain this
to the $\frac{1}{10000}$ part of an
inch — Common me-
thod by flocking the
Glass on Mercury —

2100. Will not different
velocities require a
different form of the
Ship! —

Navigators

Optics

2101. Some flexible sub-
stance such as a bladder
or blown up with air
or stuffed with wool or
cotton, held in a stream
of water, would afford
the best form for a
ship -

2102. Suppose the head
of a ship's wheel
concave, in stead of
convex -

Navigatum

Retine

~~203~~. It is alleged that
the ancient columns
had little or no swelling
more what is the one
of the swelling?

From early

~~204~~. Machines for drawing
the segments of
large circles

1. By a triangle
2. by ^{two} rollers on a
ruler, one a little
larger than the other

~~205~~ - Dupin's motion
by a cone like a
ventilator with a helix
iron on the stem

Experiments

~~2106~~ Machine for drawing
large Ellipses on Cast
Iron - or metals and straight
Lines.

~~2107~~ Machine for drawing
long parallel lines, with a
screw for moving the triangle
forward, for keeping the
beams point always
at the same angle for
making double lines
near each other in order
to be ~~cut~~ bit into one
- convenience to keep the
line at the same distance

~~2108~~ Is it not more pro-
bable that ~~coal~~ coal
is produced from peat
and that from Vegetables
by a regular process? ~~Not~~

N. M. M. M.

by a particular configuration,
the very head feet
nearly resembles each.

2709. Are not the changes
in food and other in
the animal machine
as wonderful and as
unaccountable as the
transforming the base
metals into gold?

2710. It is alleged that
that the third person
of the imperative
mode is absent, and it is
impossible to com-
mand a third person.

W. W. W. W.

L. L. L. L.

~~###~~ Causes of Springs on
the tops of mountains
- Syphon inverted between
two hills
- Capillary attraction
- Attraction of the clouds

~~###~~ In the evening clouds
they plant trees on
the tops of mountains
to break the clouds
and produce springs

2113.

Mathematics

~~Ques.~~ What proportion
Does the Diameter
of a body in allures
bear to its Distance?
Is the ratio the same
as in a horizontal
position, if not what
is the cause of the differ?

~~Ques.~~ Some of the ancient
columns are swelled
others not, but none
of them in any part
cylindrical - It is
supposed to be a con-
choid - given by what
Standard can the true
figure be ascertained

Dim. Curves

~~16~~ Tactics in war

Description of the battle
of the Romans ^{under} Agri-
cola with the Scotch under
Galgacus observes that
the Scotch were equal in
power had the advantage
with pikes, but when
they came to sword in
hand, the Romans soon
beat, because says he
the Scotch had small
shields and long swords,
the Romans large shields
and short swords, the Scotch
swords were not pointed
— Broad sword —

Ancient war

Was made

~~III~~ At night, in the
surprise of a post, in
rainy weather, in broken
ground, and in short in
any confusion the Moust
is but a rich weapon,
short swords preferable

Dillo

~~IV~~ At the commencement
of a regular action on
broken ground, attack of
pointed pikes & the
musket and shilling
are far superior to all
other weapons —

Dillo

~~V~~ The order of battle must
depend on the ground,
weapons of our own, and
of the enemy —

was Ancients

~~IIII~~ Vitruvius observes
that the level plane
of the floor should be
broad enough to hold
a cohort but this is
impossible according
to the Lक्षण System

was Modern

~~IIII~~ would not look
wadding be preferable
to common wadding,
the latter of the best

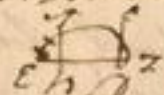
Mixed

~~IIII~~ A street measured in
Rome is 14 feet
wide & 3 feet sagged on
each side, and ten feet

The width of the carriage
wheels four feet —

~~2179.~~ Method of determining

the division of a colt.

Let  be a semi-circle whose

diameter is equal to that

of the colt: let BD be

the diam. at top, divide

EA and CD into any no

of equal parts and the

colt. into the same no

parts: line from the first

division produced to the

last give the diameter

is equal to the
last colt. of antiquity

Div. Colts.

~~III~~. An iron bridge
may be made of a
much longer span
than has been made.
either of wood or stone
- Gables - may be
built without any
support except a few
piers - no center pier

~~III~~. An arch such as
is formed by a hand-
kerchief held by the
four corners the best
for the ceiling of a
room - if one half
glue being the other
will stand, the pressure

Iron Arch

Curved

principally on the angle
by this such a recovery may
be made for proof, and
at little more expense
than in the usual
way —

~~276~~ Some Architects

allege that the Turcan
had not order and that
Vitruvius contrived it
for them, but this can
be proved not to be

Quo — the case. The project
of the Turcan is $\frac{1}{2}$ of
the height of the Col.
— A fault cannot find
near this proportion —

~~217~~ The irregularities
in the Italian Language
are such as flow na-
turally from the lan-
guage and such as
one would adopt with-
out being informed of them

Littré

~~218~~ Have the Diagrams
of the Ancient mathe-
maticians been trans-
mitted to us? or are
they supplied by the
moderns? —

McMahon

~~219~~ If a screw is forced
into water as far it
will go and consequently
the water in the tube

Myers

vessel is compressed, which
is the reason that a
ball moves in the water?

~~2130~~ Polybius in his
fragment has a
dissertation on Roman
militar - French Consti-
tution. Described -

~~2131~~ The Jewish Religion
has continued the longest
is it not therefore the
best?

2132. In Montanacut
a sundial was found
it was moved from its
place before the position
was properly attended to

Minuteman

De Mo

De Mo

Feb 1792
~~2133~~ The sounds of mus
sounds sweet forks is not
to the magnitude —

~~2134~~ The tone is sharper
by taking of either at
the extremity or end of
the extremity — perfect
at the extremity

~~2135~~ If a fork be split
so as to make two
complete forks they
are all all union

~~2136~~ A best shoke is
requisite to excite sound
in a large fork 3
inches in the prongs
and half an inch square
them in the string of a

violin -
~~2127~~ If a fork be fixed
on the end of a stick
and the other end of
placed on a board &
the fork when touched
is heard at the opposite
end of the stick - a proof
that the sound proceeds
from the support of the
fork -

~~2130~~ Quere might not
an organ be made to
communicate its sounds
by sticks from one
room or one house to
another? -

~~2759~~. Polishing a fork
Does not render the
tone sweeter - rust
Ditto seems to sweeten the tone
- sometimes polishing
renders the tone harsher

~~2760~~. To give a musical
string its best effect
Ditto it ought to be strung
with a tension nearly
equal to what it will
bear - why -

~~2761~~ The force on a
Nasprichow may
Ditto be as great as thirty
hundred lb. —

Q. No

2142. When a fifth to
the key is struck a
third note is generated
a third, / below above /
and this is the sharp,
producing that note,
to be touched

2147. Doctor Muscote
has discovered that
Colum's ring is double

Subsequent

the interval = 996 Leagues
the ²⁰ between - He has
found the outer diam
= 00,710 Leagues. Mr
A De la Lande says
it is 10 seconds greater

than has been formerly
observed, a very extraordinary
discovery. He has also ob-
served that the fifth moon
round its axis in the same
time that it revolves in
its orbit, consequently
like the moon it keeps
the same side towards the
primary planet.

~~274~~ Question what is a some-
times loose and even the ques-
tion why he is contained?

~~275~~ What is usually
Ditto meant by complex comets

~~276~~ Can musical tone
be produced by blowing
air into a common bottle

~~277~~ What is the reason
that a fork when
placed on a table is

sometimes not allowed
sometimes the sound
diminished commonly
increased —

Is there
names for the aerial
and the supported fork

~~278~~ A musical Instru-

ment of forks seems
like to the Glasses

~~2149~~ A most incompa-
rable fine shade with
Q. No two forks with inter-
vals from 2

^x
2150. Place the forks
Q. No in a series on
three boards when three
pieces can be placed

~~2151.~~ Oak produces the
best sound in forks
Q. No Deal which is best for
broken in the worst for
forks —

2152. Would it not be
better to fix the forks
in the metallic organ,
Do not the shocks heard
in some of them arise
from the above circumst.

2153. A series of experi-
ments for ascertaining
the best wood for sup-
porting the forks?—

2154. Forks double thro'd
— might not a w. be
joined together so as
to make a circular
instrument?—

~~2155.~~ The swell on the feet
is incomparably finer
Dillo than on any other mill
— I use the best method
is producing the swell

~~2156.~~ Best composition
Dillo for books —

~~2157.~~ In turning we al-
ways from habit
Dillo make the octave down-
wards too flat and up-
wards too sharp —

~~2158.~~ Musicians slow in
Dillo China, & was noted accord-
China ing to its size —

~~2159~~ An Anvil gives
a sharp sound, broken
by sounds, so large &
D. No. many would if altogether
moved, give a deep tone
by Magnet

~~2160~~^x. A collection of mu-
sic instruments
D. No. ancient and modern

~~2161~~. A gentleman on the
stage in concert says
that he hears his vi-
olinello half a note
higher than concert
pitch and it produces
no harshness in the
performance, is not this
a proof that there is no

such things as Larynx?
x may it not also prove
that great degree of motion
in larynx is not abso-
lutely necessary?

~~1787~~. In the horn of
P. M. the uvula only vibrates
sounds? —

~~1788~~. If the hammer remain
P. M. on the uvula or if the
uvula is held by the horn
the sound ceases —

~~1789~~. From what principle
M. M. does foot act to produce
red in the face
— is it by contracting
the vessels —

~~2165~~

It is to wear the same
are indubitable for the purpose
of the hardening of steel
The Armour worn before
the invention of gun powder
required the best temper
to cut it

Metals

~~2166~~

One advantage
of metals ~~is~~ ^{is} that they can be drawn
almost instantaneously
whereas a long string
is divided into cords and
consequently 'unbroken' to
give sound a considerable
length of time after the
damper has been applied

Strings



Ques Who first discovered
the quantities of the notes
in the Diatonic scale, and
by what means was this dis-
covery proved?

Ans In blowing into a flute
if the holes be stopped
a little round air you
blow a little stronger
you sound the octave the
octave above, give the
reason.

Ques How can we see
the distinction between the
Major and Minor tone
give how in the diatonic
mode and sound similar

Notes

~~270.~~ If a Shallow with
the empurpled veins of
the head on a shard of the
stone, the empurpled veins
of the head will appear
in the stone.

~~271.~~ The free fly at
Domenica in some times
of the year is scarce: has
a curious quack above
its eyes, and each wing
and in its tail which
when flying has a most
beautiful appearance
like so many condes
in the air - light of it
wash & they produce a

N. Wilby

their effect in the growth of
the weeds where they are
seen flying about in all
directions. If two or more
of the largest sort are put
into a glass in a dark
room, and a book be held
close to the glass one may
see plainly to read the
smallest print - several
of them (both) are worked
together with produce the
same effect, and be as visible
in holes on the walls of a
dark room as if written with
fluor spar, and this for a
considerable length of time after

The flies are dead.

~~27~~ The Sawyer fly is
about 2 inches in length
its head resembling that
of an elephant it is
furnished with points
on the sides like a
saw, it saws the branches
of trees which it selects
for food. - Proceeds it feeds
its little family in the
branches, and then by the
action of its wings
moves rapidly round
until the branch is
sawed through.

Dominica

Quito

L'istoria de la Letteratura?
dal Sig.^{to} Abate Andrea.

L. v. 4.º Parma
1789.

Le Lettere Antiche — da Pietro
Santi Bartoli —

An pump and app^r 20

Fountain with a com^p
that app^r: Syringe &c } 10

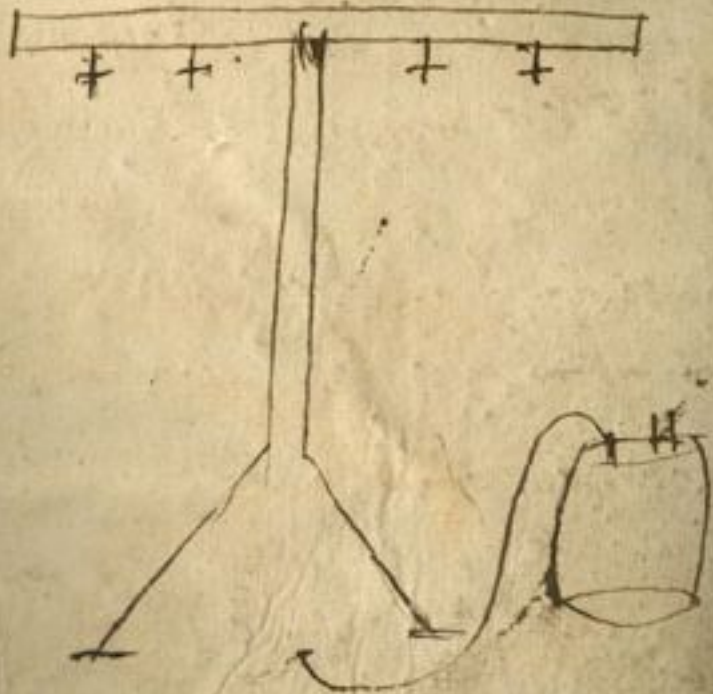
An pistol ————— 5

Eight pieces for Pholo^g
subst fire works — } 20

Grand piece cost ————— 30

Apparatus for making
airs and preparing the } 5
fire works ————— } 90

Maden



25 Jan.

~~Letter from ...~~
~~Mr. ...~~