

3

31st Oct. 84

Edgar R. White

Headingley

Edgar R. White

W. Leeds

[17]

[2]

- 2 Mar 85 -

Waller's Musical Library

Section C No 12 - Mayer

" " 13 Steibelt

2 Mar 1885

Received from
Edgar A Maite the
sum of One Pound
+ five shillings for
one quarter's tuition
of a course of the
Lessons -

£1-5-0

L. L. P. R.

Cost of Making Egg Cabinet

4th Mar 1885. - wood

(sides - partition top +

bottom of cabinet -

wood for 20 draws

cut + grooved. pitch

pine bottoms of same 6 -

6th Mar 1885 - 1 ounce

$\frac{3}{4}$ in Gimp pins fine. 3

9th Mar 1885 Grinding

plane irons + chisel 6

Jan: 86 Rhodes putting

back to Cabinet 2 ~~2~~

12/2/86 2 doz knobs. Drawer. 2 -

1/2 Heron. Bucklow²

12/2/84.

" "

" Darbyshires.

8/9/85.

Lapwing "

25/3/84.

Oyst Cat. Bucklow.

Br: Owl. "

2/9/85.

Kestrel "

7/3/84.

S. Hawk. "

" Darbyshires.

3 Gull. Wm Collier

28/9/85.

" Birkinshaw

3/10/85.

H Crow Tardman

2/4/84.

" Birkinshaw

12/11/85.

C Crane. "

8/9/85.

Magpie Bucklow

Dipper "

5+12+27/2/84.

W Hen "

5/2/84.

[7]

2 Squirrels

27/2/84

Sparrow Wales.

9/84

Curlew Bucklow.

19/9/85

Shrew. SW.

2/12/83. This

Record because it was the
first animal I tried to
stitch

Merlin from Mr. Bucklow.

23 Jan 86.

Snow Buntings Feb 27. 84. Bucklow.

3

[9]

The Robin (Burns).

Itk happing bird, wee,
helpless thing-

That in the merry
months of spring
Delighted me to hear
thee sing,

What comes o' thee?

Whare wilt thou cow't

thy chittering wing
An' close thy e'e?

4

(11)

Index

Clocks &c. - 9-10-11 - Cello. 12

Photography Cost of &c 58-9-60-1

" Developing - 23-4

" Names of Wax Wks. 50-49

" Amt realized 48.

" Size of Plates - 38

Calendar. 51-6

Drill & Shooting 47 - Reptiles 51

Dancing Music Lesson - 62-3-0-

Mice. 56-7-13

Book. Bt. 57-56

Egg Cabinet - 1-

21st July 85⁵ Huntly

No 1 $\frac{1}{4}$

" 2 $\frac{1}{4}$

" 3 $\frac{5}{4}$ Castle No 2 S. 20 Secs-S

" 4 $\frac{9}{4}$ Bridge " 15 " "

" 5 $\frac{5}{4}$ Meeting Water 3S 15 " "

" 6 $\frac{5}{4}$ Vermin Tower 15 10 " "

" 7 $\frac{9}{4}$

" 8 $\frac{1}{4}$

No^s 3 4 5 6 exp on the 21st O. Ex

~~21/7/85~~ No 3 $\frac{1}{2}$ Vermin Tower 6 S. No S

No 1 $\frac{1}{4}$ " 8 " "

No 4 $\frac{1}{2}$ Old Castle. 6 " "

No 1 + 3 Light on to plate 7 $\frac{1}{2}$

4 Very Fair 22nd —

23rd July
to 3 1/2 group. 3 Secs 1st No S.

" 4 " 5 " 1st "

~~" 1 1/4 " 1st "~~

" 7 1/4 Aunt 3 " 1st "

" 8 1/4 Uncle 3 " 1st "

to 3 + 7 good 4 + 8 post

24 July 85 —

1 1/4 Rothiemay Bdg 1 Sec 1st Sun

2 1/4 View on Beveron 1 1/2 " 1st "

25 July 85

3 1/2 M^r Bucklow's Ho 1 Sec 1st Ho S

4 1/2 " Dogs 2 " "

7 1/4 " Uncle 2 " "

1 $\frac{1}{4}$ Baby 2⁶ Sees (1) No S
 2 " Herb. Mary " " "
 7 " Art & Ernest " " "
 8 " Ron Will " " "
 3 $\frac{1}{2}$ Baby 2 Sees " "
 4 " Cookslep 1 " "
 5 $\frac{5}{8}$ " $\frac{1}{2}$ " "
 6 " " 2 " "

26. Sep. 85

Stop

1 $\frac{1}{2}$ Crumple Viaduct dull $\frac{1}{4}$ Sees
 2 " " " " $\frac{1}{5}$ "
 3 " " " " 1 12 "
 4 "
 5 "
 6 "
 7 "
 8 "

7

[17]

The Hunt of the ⁴⁰ district
several specimens were
exhibited.

List of the Birds to which I
intend to exhibit at the Con-
versations. - British Skins
Kestrel Merlin Male + Fem'
Brown Owl, Greenfinch
Redbreast, Great Tit, Yellow-
-ammer - Lapland Bunting ^{male + fe}
Hooded Crow. Water Hen -
Male + Female. Landrail
Oyster Catcher. Lapwing
Curlew. Herring Gull
Swallow - Stopped, Starling
Dipper, Young rat. shrew

Gravity Clock (Gong)
Wheels. -

120-90-96 Teeth
Pinion 10-9-8 Teeth
for $1\frac{1}{4}$ Sec. pendulum
for $1\frac{1}{2}$ " " "

The last wheel and
pinion are 90 * 9
The hook pinion has
has 40 teeth in all cases
Striking
Wheels

Marine Chronometers

go for 56 hours

Lt Wheel - Centre - 3rd - 4th - Escape
 Wheel 90 - 90 - 80 - 80 - 15
 Pinion - 14 - 12 - 10 - 10

Common Clock

Lt Wheel 100 teeth 1
 Minute " 60 " 2
 Pinion - 8 " 1
 Central " 60 " 3
 Pinion - 8 " 2
 Escape " 30 " 4
 Pinion - 8 " 3
 Pallets - 4

Watch Trains

In the best watches with what are known as high numbered movements, the train used is as follows.

	Gt Whl	Centre	3 rd	4 th	Esc
Wheel	84	80	75	72	15
Pinion		12	10	10	8

The large majority of English watches have the following train

Wheel	75	64	60	63	15
pinion		10	8	8	7

Watches of Superior kind

Wheel	84	64	60	63	15
Pinion		12	8	8	7

From Watch & Clockmaking
by David Glasgow

Take case one in which
centre wheel has 80 teeth
the third 75 with a pinion
of 10 & the fourth has 72 with
a pinion of 10 and the
escape wheel pinion with
8. Then

$$80 \times \frac{75}{10} \times \frac{72}{10} \times \frac{1}{8} = 540.$$

The escape wheel turns 540
times to the centre wheel once
and this number $\times$ by twice
the number of teeth in the
escape wheel will give the
number of escapement
beats in the hour

$$540 \times (15 \times 2) = 16,200.$$

Block Train

Going — with seconds pendulum

Main Centre Third - Escape

Wheel 96 - 64 - 60 - 30

Pinion - - 8 - 8 - 8

Striking

Main Pin Whl 3rd 4th Fly

Wheel 84 - 64 - 56 - 50 - -

Pinion - - 8 - 8 - 7 - 7

The above is in common use

Going with $\frac{1}{2}$ Second Pendulum

Main Centre 3rd Escape

Wheel 96 - 64 - 60 - 30

Pinion - - 8 - 8 - 7

Striking

Main Pin Whl 3rd 4th Fly

Wheel 84 - 64 - 56 - 50 - -

Pinion - - 8 - 8 - 7 - 7 [25]

In Case one, the relative
speed of the train is as follows.
1st Wheel Centre 3rd 4th Eye

$$\frac{1}{7}$$

$$1 - 8.60.540$$

13 May 1885. I Bought a
Cello from Wade in —
Upperhead Row for £2.10.0
and a bow 5/- also a
Violincello Tutor from
Syke's Albion St. 1/6 —

9 Jan 86. I sold the Cello*
to T.V.C. Atkinson for £4
he promised to pay me
in May next.

* + Bow + Tutor —



Swans Ruthie Park
Aberdeen

19/7/85.



19/7/85 [29]



13

Mice - 1885

~~May 9~~, ~~F+W~~ **B-W-D**, 12 July

6 Prod - 1 dead 1 died

Mrs J Birkus has

May 21. ~~F+W~~ **B-G-D**

Nov 12. 85. Hooded Crow
sent from Castleford -
by ^F Kendall's friend

total length 17 in

Exp of Wings 32 "

This letter inside lid of
box - Dear Sir would
you kindly stuff me a
Wood Pigeon for a decoy
Bird if you will I will
shoot one send it

Yours Truly Mrs J Birkus
stamp / Beckfield [30]

tover & spoiled them
Thursday. I and all the
boys went to bathe in
the Severon until —
Dinner time, we saw a
weasle run across the
road & I picked up a
rook's skull We did
very little in the Afterⁿ
but after tea I took
photos of the family
in a group & an seper-
ate photo each of
Uncle & Aunt After
this we all went to
nearly the top of the
Clash Mach & to bed

continued on page 24 -

beat a speedy retreat
to the water we had
a "go" at him and
dislodged him but
he got into some hole
or other we could
not again make him
move. ^{This day I also saw a heron} After dinner

we went to the Bowling
green & watched a match
played between Elgin &
Huntly the latter winning
After tea I took 3 photos
2 of the Vermin Tower &
one of the Old Castle but
light got into both the
plates of the vermin

bank about 6 yards from the water I was rather surprised to see a long brown stick rapidly advancing towards them I found that it was a polecat one of the birds left the other one when it was joined by a third these two now became aggressors evidently bent on helping their friend I should very much have liked to see the result but unfortunately the polecat saw us +

Wednesday 22nd. I had a long walk this morning with Mr Gurnell whom I find is a Botanist & Geologist - Uncle.

Ronny & Willie we went to ^{Kinnaird church} ~~an old~~ burial ground & saw several gravestones bearing the skull & cross bones & the hour glass & we returned ^{home} by the side of the River & saw several large eels at the bottom. The next thing I saw was two Sandpeps who were on the river.

there were some black
rats there of course of
should like to see
them. although I fancied
that they must be voles
they did not however
favour us with a view
that evening. we came
back by the Lawn Tennis
Bowls green - I watched
them play a little
I had a ride on Mr
Gunnell's tricycle which
I can ride very well
It is a Singer's Traveller
I forgot to write I saw a
squirrel this afternoon

old castle then the
bridge over the Deveron
- the meeting of the
waters of the Deveron
& Bogie & lastly of the
hermin tower - upon
developing I found
they were all over
exposed - in the afternoon
I sat in the garden under
the trees as the sun was
very hot - after tea Uncle
& I went up the Clash Mach
a hill about feet
high on coming down
we went to the brewery
because Uncle said that

17
permission to use his
dark room. We then
visited the vermin
tower - attached to Huntly
dodge - where are nailed
up thro' the skull —
Rooks Magpies, Kestrels
Sparrow Hawks
Weasels Stoats Polecats

Though a great majority
of them are indistinguishable
owing to nothing but
the skeleton remaining.
Tuesday in the morning
I took out the camera +
first took a view of the

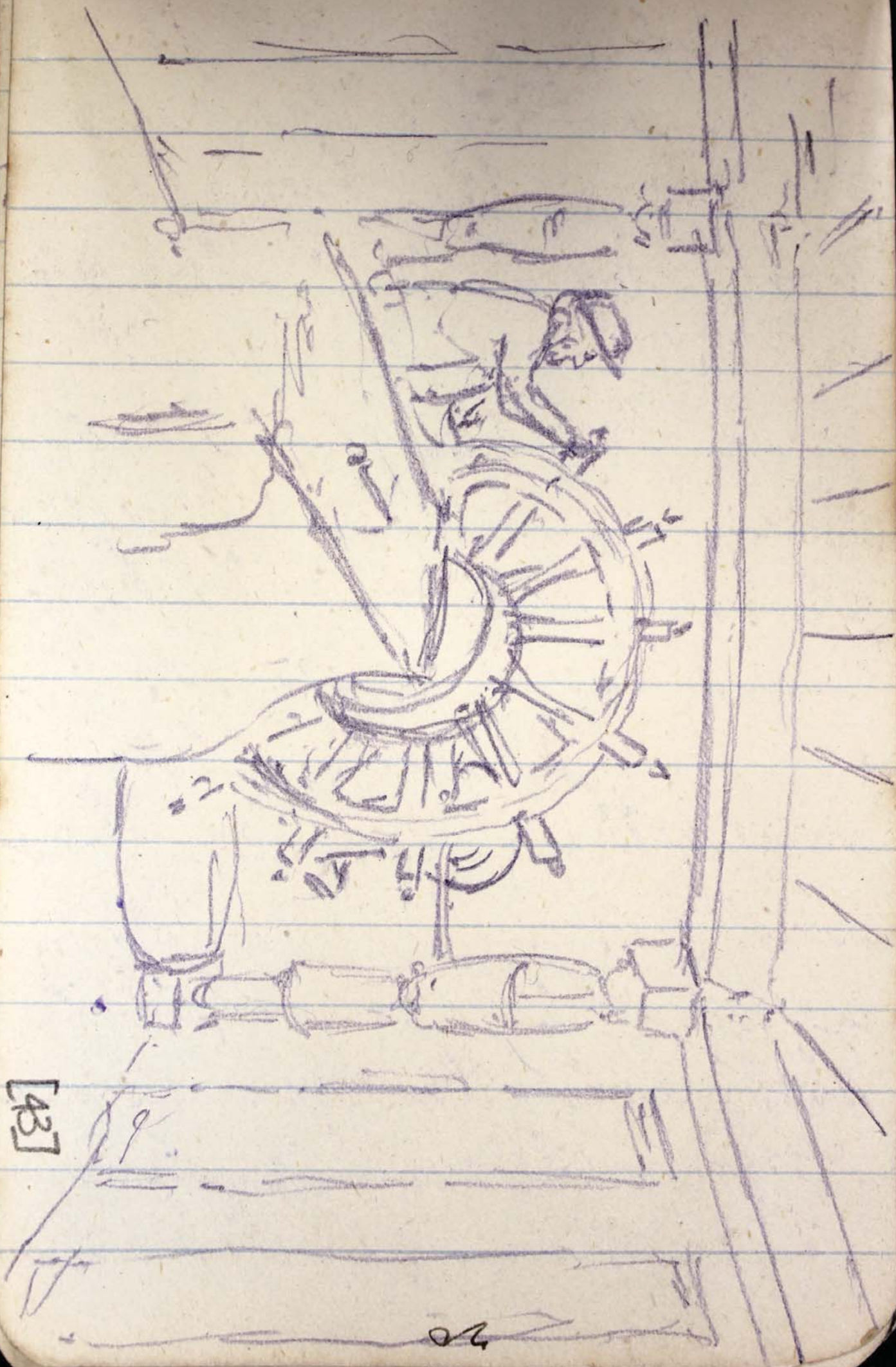
arrived at Huntly about
9 where I was met by
Uncle - we then went to
his house & had breakfast
& afterwards I was in-
troduced ~~the~~ to his
youngsters in the garden
Uncle & I had a nice walk
round the village & I saw
some dippers & Oyster Catchers
along the side of the river
in the afternoon we
went to see a cricket
match between Banff
& Huntly in the evening
we called on Mr Penny
& he kindly gave me

a rapid sketch (page 13)
I called at a small
refreshment Room &
got something to eat I
then went back to Aberdeen
to the Douglas & had a
wash & dress & came down
into the smoke room
Where I now am 3 45 Am
at 5 O'Clock I had dinner
in the Coffee room with some
London Nobs. I then had
a walk round the town &
went to bed at 8.15 & slept
until Boots called me at
6 am on Monday the 20th
At 7. I left Aberdeen &

was just be played
at one of the barracks
near. at 6.30 am
a porter took my trap
to the Douglas Hotel
where I engaged a bed
for the night (Sunday)
wrote to Mother & Uncle
& then walked on to the
Bridge of Dee. I sat down
on this stone in the
river to write my diary
a beautiful morning 8 am
I now went back to Aberdeen
& from thence to the Brig-
o' Don of which I made

a mile from it as soon as the engine was stopped the water got hold of the boat & made her roll still more. I went to bed about 10.20 & slept until 4.15 am when we were just entering dock. I found that the rough water had made a few of the passengers sick but it had not affected me at all. We landed at 5.30. am A Revell

I had soup - Leef Potatoes
Vegetable - & Rhubarb Tart
At 2 o'clock we drew in
the log & found that we
had travelled $83\frac{1}{4}$ miles
since 6 o'clock in the
morning - as soon as
~~we~~ reached Pipe Pass
the water began to roll
& so continued until
we landed - we sighted
the Aberdeen light at
9-55 P.m. there are two
lights in this tower
one above the other &
we lay all night about



our ship (about 15 feet)
He said 30 miles and
therefore the horizon
was about 15 miles off
at 8 o'clock we went
into breakfast & I had
ham & eggs & tea & I enjoyed
it very much - It now
came on to rain so
we went into the
forecastle & stayed there
until 9-45 when it
again cleared up but
soon after the rain came
& never cleared again
that day. For dinner

so I had a chat with
him - we first talked
about time - & he said that
1 degree of Longitude -
equalled 4 minutes
and 13 miles = 1 Minute
we next saw the royals
of a large ship & gradually
the whole vessel appeared
the Captain ^{said} with regard
to the horizon that we were
all the centre of our own
circle I asked him what
was the diameter of the
circle on a smooth sea
& from the height of

Slept very well considering
the rackett. I got up at
3.30 & went on the deck
& the sun was just rising
The mate said there was
not often a chance of
seeing the sun rise so
beautifully as it did
this morning - it came
on to rain & the sun
was obscured so I went
into the saloon. about
 $\frac{1}{2}$ an hour afterwards
it cleared up & I again
went on deck the captain
was up by this time

17 July.

✓ Holidays 1885

Left Leeds 3.40 Pm - Arrived
at Hull 5.55 - Took a cab
which brought me on board
at 6.20 - I went out and
got some tea & came back
at 7 Pm. We began to move
at 7.20 but did not get
out of dock until 9.30
owing to the number of
vessels going in & out
which we had to steer
between & also we had
to wait for the tide, after
parading about deck I
turned in at 10.30 and

Alexander Piore
Captain Alex^r Linklater
Donnage 4000 —

-
1. Ronald Frederick Waite
 - 2 William Graham "
 - 3 Ernest Moye "
 - 4 Arthur Stanley "
 - 5 Herbert St John "
 - 6 Mary Sarah "
 - 7 Percy "

(1) 19th Oct - 1872 - (2) 5th Feb - 73
(3) 25 Sep - 74 (4) 1 " - 75
(5) " - 77 (6) " - 79
(7) 1 April / 83

19/7/85 Cost of
Holidays 1885

Train Fare Leeds to Leeds	-2
Dia 2oz 4 th Cos Pills 1/4	.8
Fare Leeds to Hull	4-3
Cake Fare to the Dock	1-0
Fare Hull to Aberdeen	15-0
Sea at Hull	.6
Meals on Board	6 6
Steward	1-0
Porter to Douglas Hotel	-10
Three Buns Don Bridge	3
Douglas Hotel Expenses	9-0
Fare Aberdeen to Huntly	3 5
Boys 5/- Mr Penny 2/6	7-6
Fare Huntly to Aberdeen	3-5
Aberdeen Edinburgh	9-8
Edin to Leeds	17-0

+ finish developement
4. If over exposed it will
flash out on the appli-
cation of the 5 drops -
then add 2 drops of
Potass-Brom: + finish
developement without
adding the further 15 drop
Amm: Brom: Solⁿ:

Strong Ammonia	1 oz
Brom: Potash 90 grs =	1½ dis
Water	2 oz

Over-exposed negs can be
easily reduced as above
but under exposed neg
cannot be so easily righted
∴ err on the side of over. exp^{re}

Waller's Formula

Mr. Schrah's Developer.

1. Put the exposed plate into water.
2. Use 3 grs. Dry Pyro: to 1 oz. water & pour over plate. while this is soaking in, pour into empty measure 5 drops of Amm: Bromide Solⁿ and pour Pyro Solⁿ into it & return ... to plate
3. If image appears slowly & shows full details in $\frac{1}{2}$ minute it is rightly exposed. Then add other 15 drops of Amm: Brom:

Friday July 24 In the morning
I went to the Photographers
developed & changed my
plates & got ready the
fishing tackle for the
afternoon when Uncle
Ronald & I took the train
to Rothiemay - I took
a photo of the Bridge -
The day was too bright
for trout fishing but
Ronny & I managed to
secure 4 eels from 1
foot to 18 inches long
After tea I had a swim
in the loque about 8

feet of water later. I
* the 3 eldest boys went
to the Old Castle to try &
catch some bats but
we could not get the
keys but we saw the
bats flying about
Saturday ²⁵ I & Uncle drove
to Glendronach to Mrs
Bucklow's House (it is
distant about 9 miles)
where we had dinner
we then went to a place
on the Deveron where
large salmon are often
taken out but the fish

would not take owing to
there being so little water
in the river⁺. We saw a
heron⁺ & a black rabbit
⁺ we only caught a few
smelt which we threw
back again. I took 3
Photos one of Mr. Bu-
House - another of himself
& dogs & a third of Nick
& he - he keeps 4 dogs.
5 or 6 Ferrets - ducks, hens
Belgian Hares, A pair
of Golden Pheasants & a
pair of partridges. he
was very kind & said

that if I wanted any
bird or animal, he would
get me it if it was to
be had. After fishing
we came back to the
"Glen" & had tea & then
drove home again -
the distance we walked
from the Glen to fish
& back again was about
8 miles. We arrived at
Huntly about 10:30 Pm
Sunday 26. I went to The
Congregational Church
with Uncle Aunt & the
boys in the morning

* went to sleep in the
afternoon & after tea
we went for a long walk
* He went to bed having
passed a very quiet day
Monday 27. Uncle & I left
Huntly by train at 9
am & arrived a Keith
from thence we rebooked
to Fochabers - we next took
a 6⁰ bus into the town ^{& saw a woman washing clothes out}
* then ^{her feet in a tub} drove in a trap
to the spey a distance
of 4 1/2 miles - Uncle fished
the river nearly down to
the sea but caught
nothing worth mentioning

it was then about 3.30
so we packed up & made
for the sea we there found
that nets were stretched
across the river & for $\frac{1}{2}$
a mile out to sea so
that we had not much
chance of getting any
fish up the river we next
went to the Fish House of
the Duke of Richmond
where they were bringing
in salmon & sea trout
by cart loads - we walked
along the coast through
Port Gordon & on to Buckie
a distance of 5 miles

we went to the Commercial
Hotel & had a cup of tea
we saw a great variety of
Sea birds on the sprey -
Oyster Catchers, Gulls, Terns
& the last named often
caught small fish and
were then often chased by
the other birds - Buckie
is the dirtiest place I
ever saw. I mean as
regards the place & the
habits of the people. I
will not write all I saw
there - we next took the
Highland Railway to
Keith & there changed to

The G N of Scotland line
 which brought us on
 to Huntly about 9.30 Pm
 The carriages of the H R
 are just like Cattle trucks
 the compartments being
 only shoulder high so that
 we could see from one
 end of the carriage to
 the other. The day was
 magnificent & we saw
 some big hills on our
 way viz The Knock ¹⁴⁸⁹ ~~at 1489~~
 The Ballock Muldeary
 Ben Eighan, Ben Rinn
 Cullinan ¹⁴⁸⁹ ~~at 1489~~
 Ben of Cullen 1050

Tuesday 28. After Breakfast
I & the boys went to the
Deveron & had a bathe but
did not get back till 2
when we had dinner
after which we went
over the Old Castle having
got the keys. After tea
Uncle & I did a little
gardening & we saw an
owl flying & although it
passed within a few yards
of us we could not hear
it Wednesday. At 9 am
Uncle M^r Linnell & I went
to glass where a Horse
& Cattle Market is held

we got into a wagonette
 which was going the distance
 is about 8 miles. When we
 got there Uncle did his
 business with regard to
 all the tent holder ^{who} ~~which~~
 were selling Beer and
 spirits - having licenses
 he found all square
 we there saw a buxom
 dame riding astride
 of a large horse There
 were a good many goKos
 cracked thereat. We walked
~~home~~ ^{back} partly by the road
 & partly by the river side
 & saw 2 Curlews. & when

about $\frac{1}{2}$ way home we
had got so tired owing
to the blazing sun that
we took off boots and
stockings & had a dabble
in the river. we got home
about 5 o'clock & after
tea I took some photos
of the children & then
went with Uncle to the
station to obtain some
information with regard
to the train service to
Aberdeen - We then went
to Mrs Robinson's house to
where we were joined by
Aunt & the "two eldest"

Exposures. 1885

ap

Pl.	Kind.	Light.	Ex.	Lens.	Subject.	Result
1/2	R+13.	S.S.	25	Y	J Waite	Full F.T. 9
1/2	"	"	"	"	ER Waite	" " "
1/2	"	"	"	"	Wm Waite	" " "
1/2	"	D.	55	Y	ER Waite	Flor F
1/2	"	B	55	"	J H Anderson	Six G
1/2	"	B	65	"	J E Granger	" " "
1/2	"	D	85	"	Abrosfield	Flor " "
1/2	"	"	105	"	Wm Waite	" " " "
1/4	D.	"	55	"	J Waite	" " " "
1/4	"	"	65	"	ER Waite	" " " "
1/2	R+B	M	105	"	Miss Cottan	Six F.T. "
1/4	R. Room	205	M. Cam	Cora.	full	Ex " "
1/4	"	"	"	"	M. W. from Portrait	" G " "
1/4	"	Dusk	40	"	Miss J.	" E " "

Mr B is over 80 years of age & is quite blind the object of our visit was to have some music - staying at present for the purpose of education as the young Cooksleys their parents are in the Transvaal & ^{children} they have only just come over a month ago they gave me an Ostrich egg also the seeds of the Cream of Tartar plant & Mahogany tree - Thursday. In the morning the Cooksleys came to Uncle's House & I took their photo

I left Huntly at 1-23 ³¹ & arrived
at Aberdeen @ 3-15 and
left " at 4-40 & crossed
Broughty Ferry in the "Thane
of Fife" at 7-45 & then took
the train to Burntisland &
then crossed the Firth of Tay
in the "John Stirling" & again
took the line for Edinburgh
where I stayed all night
at the Crown Hotel in the
morning ^{Friday} I left the Hotel
about 8 O'clock & went round
the City pt to Carlton Hill
then to the Castle where I
saw Mons Meg & then down
to the grassmarket & saw



a cross in the center of
the street which marked
the place where the gibbet
used to stand. then to
West Port & saw the houses
of Burke & Hare. then to -
Arthur's seat - I heard the
signal gun fired at 1
O'clock. but I was too
late to see the ball drop
on Nelson's Monument
I now saw Holyrood Palace
I also saw the House of Mr
Knox - St Chalmers Church
Scott's Monument & & &
I left Edinburgh at 2-35 Pm

* Came home by Midland
via Carlisle & Little & when
we got to Kirkstall Staⁿ
I looked out to see if we
were going to stop but
we did not & in drawing
in my head away flew
my chummy so I was
hatter I gentleman
in the carriage asked
me if I had far to go
* gave me his soft hat
when about $\frac{1}{4}$ mile from
Kirkstall Station the train
began to slow up & I
thought it was going to

stop so I got my
Portmanteau jumped
out I then walked
back to the station &
saw one of the Porters
with my hat in his
hand & he gave me
a gentle hint saying
that he had only just
saved it from going
under the wheel but
I took no notice of it
I carried my traps
home & knocked Father
up it was not yet 10
but they had gone to bed.

~~What~~ Monday Aug 3 My
holidays are at an
end - but - This day gives
me a little longer being
bank holiday - I and
Father took the train to
Dool * then walked thrs'
Leathley * on to Blunschiff
Crag * from thence to
Wreton station whence
we embarked at 6.5 Pm
M

' long without being drowned
' and can get no purchase
' for their claws or solid
' place from which they
' might make a spring to
' get out. When swimming
' about they will probably
' make a noise of distress &
' the other rats (for they are
' inquisitive animals) will
' come to see what is the
' matter. This is the plan
adopted by the captain of
' the slave ship when he
' makes his unfortunate
' fellow-creatures "walk the
plank"

· they get upon the inside
· half of the board, which
· is now no longer support-
· -ted it will tip up with
· them and precipitate them
· into the barrel below. This
· done, the board if properly
· balanced, will return to
· its proper position and be
· ready for another rat. In
· this way an indefinite
· quantity of rats may be
· caught in a single night
· The barrel may be half filled
· with water, if it is desirable
· to kill the rats for they
· cannot swim about very

their weight, for two or 3
nights till they gain con-
fidence; then on the
night that you wish to
catch them simply remove
the supporters from under
that half of the board which
overhangs the barrel, leaving
the supporters of that half
of the board which is outside
the tub still in their places
The bait must remain in
its place at the end over-
-hanging the tub; the rats
which will come as usual
and run along the board
to get the bait; but directly

in the tub that it is perfectly
balanced like the board on
which the boys play see-saw
on to the end which overhangs
the tub fasten firmly a bit
of bacon or cheese & let the
other, the free end, rest against
a shelf or any projection so
that the rats can get on to
it to eat the bacon, By means
of a nail or two or an upright
bit of wood, fix the swinging
board so that it becomes
perfectly steady & immovable
Let the rats become accustomed
to get upon it & eat the bait
without its being moved by

Rat. Traps.

25/9/85

From F Buckland's *Civissities* of #
Natural History Vol 1.

"The most ingenious & simple
trap I know to catch rats is made
with a common tub or barrel
and a little bit of board. a
tub without a head must be
procured, deep enough to prevent
a rat getting out of it when he
is once in; then cut a bit out
of its upper edge & to this fit a
bit of board about a foot long
and an inch or more broad
through the centre of this board
run a bit of wire & so fix it
by its centre into the notch

on the flowers of West
Yorkshire. After the
meeting the minutes
of last week were read
& my name again
brought before them
Carried unanimously
M^r Paul M^r Stubbs
Mr Hewitson & M^r Branson
were my chief supporters
30 Oct. The club met to
night for the purpose
of leaving a paper
on Norway but Mr
Addyman being ill
we had a paper on

to 46

as a van was going to
Chapeltown we would take
us all there, I said that
I wanted to go ~~the~~ Headingley
so I ran out after Mr
Stubbins & overtook him
on the road the rain
was coming down
we walked home
arriving there at
9 O'clock. On the 16th
I was proposed a member
of the Leeds Naturalists
Club, & on the 23rd I
attended a paper
by Mr Jas. Abbott

Photography

D[±]

58 Brought Forw^d

2 10 3 1/2

Sale of Group to

3rd Sept. 85

11 6

ditto to 9/9/85

5 6

1885. Photography

Oct.

38 Brought Forw ^d	7.	17.	3
11. Sep. 6. Frames ² / ₁		6	-

Sizes of Plates.

$\frac{1}{16}$	=	$1\frac{3}{8} \times 1\frac{5}{8}$	- inches
$\frac{1}{9}$	=	$2\frac{1}{2} \times 2$	"
$\frac{1}{6}$	=	$3\frac{1}{4} \times 2\frac{3}{4}$	"
$\frac{1}{4}$	=	$4\frac{1}{4} \times 3\frac{1}{4}$	"
$\frac{1}{3}$	=	5×4	"
$\frac{1}{2}$	=	$6\frac{1}{2} \times 4\frac{3}{4}$	"
$\frac{1}{1}$	=	$8\frac{1}{2} \times 6\frac{1}{2}$	"
Extra $\frac{1}{1}$	=	10×8	"

Mounts

Malvern-	$6\frac{1}{2} \times 3\frac{1}{4}$
Promenade	$8\frac{1}{4} \times 4$
Boudoir	$8\frac{1}{2} \times 5\frac{1}{2}$

Edgar R wait

Jayron 107.
Totaro Brown:

Acummo: & Brown:

Derby 1/2 Pealer 1807.
Drop Botke - small.

6.58
3
2.9

16

2

4

8

9

6.5

[799]

25th May 85.

3	Bridge Green Beck	45	190 - Sum
4	Boston Bridge	40	
5	Thorpe Hall	40	
6	Mills	40	
5	1 Howley	40	S
4	2 Crag by River	40	S
4	3 Jackdaw Crag	40	W S
4	4 Dam Rd Flintvale	30	S
2	5 Flint Mills	12	S
1	6 Raywood Farm	15	S

Food to be avoided by one
disposed to become stout
Sugar, potatoes, beer
excess of meat butter.
Take dry toast, lean
meat poultry and
drink claret plenty
of walking exercise.

The name of the little [19/8/85]
pinching weevil which
infests the strawberry
plant is *Orchestes Fragariae*

To Miss F. F. on May 18th 1885
being her 21st birthday &
enclosing a few flowers.

May you be happy as
these flowers,
And each successive year
bring happier hours

ERW.

We then went to hear
the brass band & we
did hear it with a
vengeance, we then
sent the smokers up
stairs, and about 8
O'clock, I heard Mr
Stubbins' dog barking
& some one in the
room said: "there goes
Mr. Stubbins" I rushed
out & met Mr. Paul
in the corridor, whom
I asked, if Mr. Stubbins
had gone. He said yes
but pressed me to stay

John 36

[83]

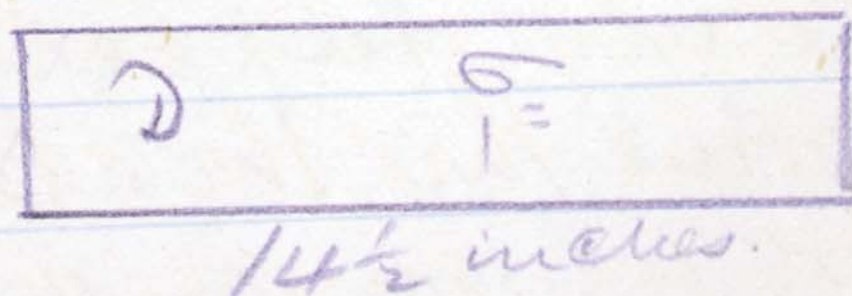
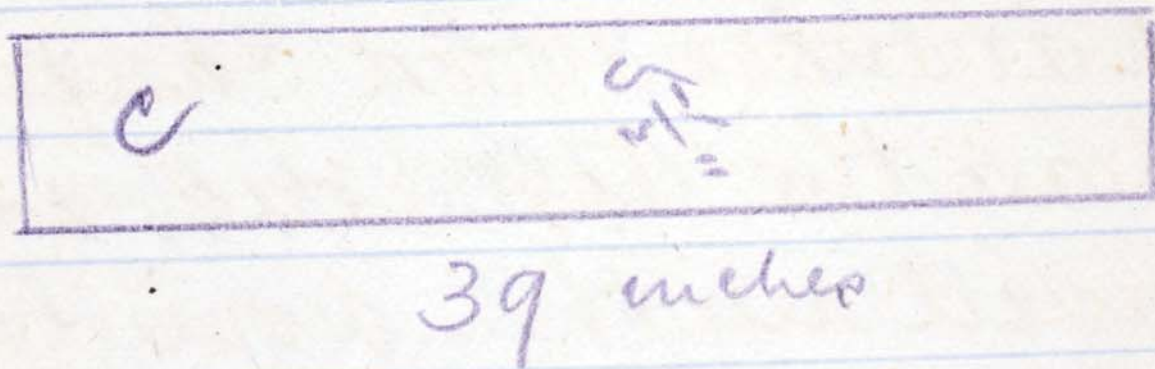
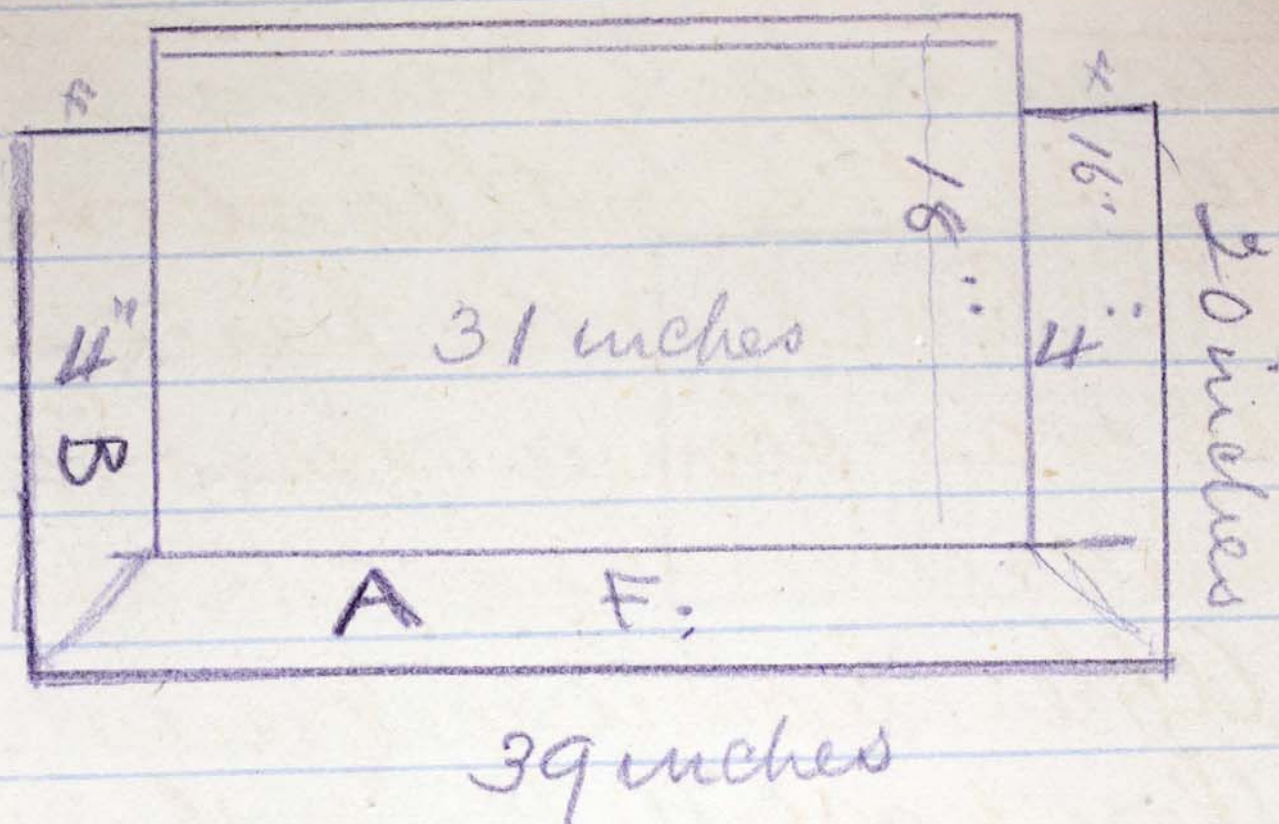
whence we went to
the 7 arches fishing
in the low stream as
we went. we then struck
off across Black Moor &
I then heard that we
were going to Shadwell
Industrial School where
Mr. Paul would provide
tea for us, we arrived
there in due course
having been joined by
several members on the
way so sat down to
tea we had a splendid
set out. Beef Mutton
Ham Chicken &c. —

The sides of the box to
be 4' inches high

raise the bottle above
the level of the partition
it was slung over the
shoulder by a strap.

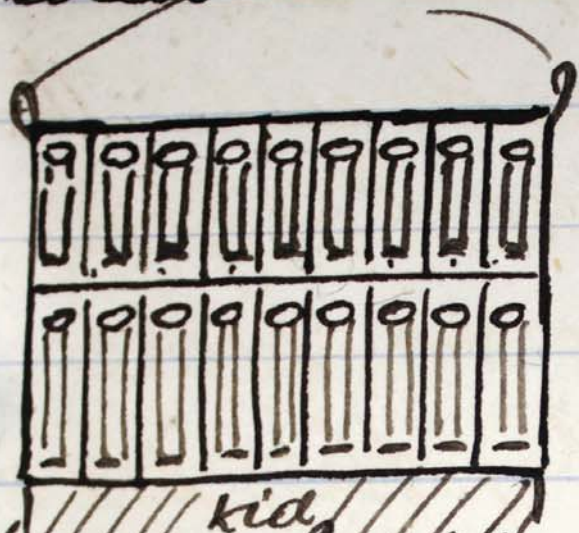
After leaving Grey's
Pond we went thro'
Meanwood wood & keeping
along the top road we
found another pond which
was duly inspected.
Then going thro' the other
wood we emerged at
Scotland Mill from

Box round Mus. habit
— for flowers —



A+B gives the sight meas^t. from Top
and " actual meas^t of bottom —

was divided horizontally
into 2 equal parts &
each part was subdiv-
ided into 8 compartments



each one
carrying
a glass bottle
with a metal

lid which screwed on
to it - a lid then cov^d
the front of the case
he had a little difficulty
in getting out a single
bottle so I suggested
that behind each he
should have a small
spring which would

a piece of elastic -



When a sweep under water was made, the small objects passed into the net while the larger ones, weeds &c, were kept out by the sieve. The net was then taken off & the sediment shaken into a little clean water and poured into one of the small bottles. The tin case for carrying the bottle was about 8 x 6 inches & 2 inches thick, this

of the Gentlemen who
was collecting for him
Microscope had a very
neat apparatus for
gathering & storing his
invisible objects. his
net consisted of about
5 pieces of wood which
could be put together
like a fishing rod it
was then about 8 feet
long & the end piece
terminated in a little
sieve about 3 inches
across & grooved so that
a small cambric net
could be fitted with

from a man, that he
"had seen 5 or 6 gentlemen
go past a few minutes
since with some things
on their backs" so off I
started & overtook them
opposite Mr Ramsdens
house, fishing in Greys.
Pond. I knew only two
of them. viz Mr Stubbs
& Mr Hainsworth who had
his two little boys with
him Mr Stringer's son was
also there. Among them
was an Entomologist
2 or 3 Microscopists also
a few Botanists - one

10 Oct 85 During the week Mr. Stubbins asked Father if I would join the Leeds Naturalists Club on Saturday for a ramble on Adel Moor. He said they met at the 3 Horse Shoes. but he did not know at what time. In reply to a letter Mr. Stringer told Willie that the time was 2.30 but he did not know the place of meeting -

Accordingly on the 10th I turned up shortly after 2.30 but found

Sep. 28¹⁸⁸⁵ Mr Wm M Collier
one of Uncle's Officers at
Banff sent me 3 young
herring gulls.

Oct 3/85. I had a gull
sent from near Hull
by a friend of Kendall's

26 Sep. 85 Lewis Hackett.

sent me his collection
of Birds eggs, & gave me
a little book Outlines

of Natural History 19/9/85

3 Oct He gave me another
book British Butterflies

21 Aug. 85 I Bought Burns
works in the Market for

5s.

I have found another
another insect like
pice humanus only
lighter in color but
about the ^{only not so fat} same size,
with a black dot in
the middle of the body.
I have now found
another insect about
 $\frac{1}{8}$ inch long with a
seemingly detached
head & about the color
of coffee.

The Curlew sent me
by Mr. Bucklow on
19. Sep 85 Measured
Across wings 32 inch
Beak to tail $21\frac{1}{2}$ "

Top of Head to tail $16\frac{1}{2}$ "

Back of Head to Beak 7 "

length of leg 9 "

" Beak $4\frac{1}{4}$ "

Found on it flies like
drawing ~~it~~ with suckers
on their feet also a
small insect not $\frac{1}{8}$ inch
long very thin I suppose
will be its parasite
since writing the foregoing

All animals which possess two condyles on the occipital bone and possess non-nucleated red blood corpuscles suckle their young - An animal which has only one condyle on its occipital bone does not suckle its young -

The feet are cleft in all animals which ruminate but not in any other.

The Heron sent me
from Wales 8 Sep-85
Measured across the
Wings 4 feet 6 inches
Beak to tail 34 inches
Length of leg 15 "
Beak to juncture with
the body 19 inches
Length of body 10 "
" body tail 15 "

~~Wing~~
Beak to back of head 7 "
Length of beak 4 "
did not weigh Heron

Land Rail given by Kendra
8 Sep 85 - Length $10\frac{1}{2}$ in
Across wings 13 in Leg $5\frac{1}{2}$ "
Height Seven ounces. [96]

Drills - 1885 -

- 18 Mar - Company. O.C. (Roll)
19 " " O.C. —
2 May, Parade.
2 June, Company. (Position)
6 " Parade.
9 " Company (Position Roll)
20 " Parade.
7 July Company.
10 " " Guard of Hon.
11 " Parade " "
13 " " " "

1885

What Tuesday Shot for Third
Class made only 38 and
∴ did not pass —

29 June - Shot for Third
Class made 50 and
passed by 10 see below

200 - 3 2 3 2 3 3 2 4 2 3

300 3 0 2 0 3 3 3 3 3 3

27 @ 200 - 23 @ 300 = 50

48

[99]

Photo.

Group in Costume to

23. June. Mr. Derry No 1.	1	6
" JH Simpson No 3.	1	6
24, " Mr. James No 1+2	3	-
3 July " Cuttriss No 1+2	3	-
22, Aug JH Simpson No 1	1	6
3, Sep. Mr. W Smith. 7 Photos	7	-
7 " Miss Richardson 1+2	3	-
9 " W. Asquith 1+2.	2	6.

Smith C	Miss Richardson
Asquith W	" Arthington
Cutler	"
James	" Allison
Simpson J.H.	"
Allison A	
Wate W	
" ER	
May Saml	

Miss Richardson	Portia
Mr W Asquith	Shylock
Miss Arthington	Britannia
Mr W Waite	Napoleon III
" B Simpson	Lord Nelson
" C Smith	The Mahdi
Miss Ada Arthington	Florence Nightingale
attendant on	
Mr E R Waite	Sick Soldier
" Allison	Lord R Church
" S May	Sick Arab
" C Smith	Mahdi

In cases where two distinct living bodies are required to reproduce their species it is called "dioecious" but where the essential parts of reproduction are present into the same individual it is called —

hermaphrodite, androgynous
or monoecious — androgynous

But in the latter case two individuals are usually required & each is being impregnated & is impregnating, at one & the same time (instance the snail)

(Waxworths-) June. 13. 85.

1.	6 seconds	Lord Nelson	Moved	very ^{Excellent} good.
2.	9 "	Bones on Right	with Oil can.	rs
3	15 "	Camera	Moved - spoiled	
4	12 "	Mr. Smith on Right	Moved	V. Good.

Group. with Bicycles

5.	12 "	W. Waitt	looking to right	V. Good
6	20 "	"	front.	"

Reptiles

Divisible into 4 groups

1 Chelonians or Turtles Tortoises

2 Saurians or Lizards

3 Ophidians or Snakes

4 Amphibians or Frog Toads Newts

(2) Gavials of the Ganges 1840

{ Crocodile of the Nile

{ Alligator of Nth America

{ Cayman of the South

The above are great Saurians

2 Sep 85 Mr Bucklow

Sent me a brown Owl.

JULY, 1885.

SUN.	✠	5	12	19	26	✠
MON.	✠	6	13	20	27	✠
TUES.	✠	7	14	21	28	✠
WED.	1	8	15	22	29	✠
THU.	2	9	16	23	30	✠
FRI.	3	10	17	24	31	✠
SAT.	4	11	18	25	✠	✠

L105a7

Johnny. caught it & gave
it to me, In 1883 Mr. Hartley
caught one in Burley Fields
on the 29th June, this one
came into my possession
but I afterwards gave it
away.

8 Sep 85. Annie Darbishire
sent me a Heron ~~Thurndall~~
& in its stomach I found
a young eel about 6 inches
long & a shrimp also a lot
of the green vegetation

Kendall gave me a Corn
Crake shot at Castleport on
the 5 it was shot on the 10th
8/9/85. [106]

18/4/85 Saw humble bee. in
Headingley Church Yard.

19/4/85 Daisy & dandelion
in flower. (primrose day)
also. buttercup. swallow
flying high in air
Chaffinches pairing
Starlings building

30/4/85 Young Missel Thrushes
flying about. - young
thrushes & young blackbirds
in nest. Water Hen have
eggs.

16/6/85. Of the jackdaws which built
in Mr. Reid's House a young one
came down rather prematurely

their droppings. - I saw several kinds of gulls flying on the river - Willie & I then visited Cross's Managerie but owing to want of time we were not able to go round the Macaws & Parrots were loose. & climbed about all over - the return train left Liverpool at 6 Pm & arrived at Leeds at 10 Pm. We having spent a very enjoyable day

Natural History science of Nature

Ornithology " Birds

Oology " Eggs

Erpetology " Reptiles

Entomology " Insects

Zoology " Animals

Conchology " Shells

Ichthyology " Fishes

Geology " Interior of the Earth

Physiology " Human Body

Phrenology " Head

Biology " Things with life

(including both Zoology & Botany)

Anthropology " Mankind

I have yet seen. it
is graced with many
Marble statues representing
Greek & Roman celebrities
as. Virgin Venus, Appolo,
Adonis Daphne. Minerva
Nerules &c etc also
some fine groups in
Marble. The finding
of Moses &c - On coming
outside I was greatly
struck with the hundreds
of Pigeons congregating
on the Capitals of the
large buildings. &
the pavement beneath
was covered with

the docks & saw a China
-man^("Nestor") about 400. feet long
& then went over the
"Valparaiso" a South
American liner 2500
Tonnage. the whole
vessel was lighted with
the Electric light & had
4 Masts. We next went
over the Mersey to -
Birkenhead & saw the
operations of the Mersey
Tunnel - recrossing we
went over the large City
Hall. St Georges. a fine
Building & the Museum
which is the finest

22 Mar. Saw a Lapwing
at Moortown - Rooks +
Mussel Thrushes pairing
Frogs. just commencing
to spawn - This lateness
is probably owing to the
inclement weather there
being ice on the water

28 Mar. Saw a sparrow
plucking withered grass
apparently for nesting
6 Apr. Easter Monday. Willie
+ I went by the Midland
trip to Liverpool 3/3 return
Left Leeds at 6.45 and
arrived at Liverpool at
12.0 am. - Went down to

then a pigeon, but now I saw that it had a small bird in its claws - it was a Sparrowhawk and had apparently just caught its breakfast, on seeing me it flew away the little bird being still alive, and the hawk taking it with it, - The Sparrowhawk was not down more than 10 seconds having seen me, looking out of my bed room window not 12 yards from it

~~6th April.~~ } Willie & I went.
~~Easter Monday~~

away but never came
on the ground to pick them
^{again} up - they (the twigs) must
have been dead or the
birds could not have
broken them - they thus
prune the trees. sometimes
they carry the twigs by
the end seeming not to
have the sense to carry them
by the middle



14 Mar. This morning
about 8 O'clock I saw a
bird fly down on to
the grass plot in front
of our house - at first I
thought it was a jackdaw

Calendar 1885.

7 Mar. Had a walk to ascertain whether the frogs had commenced spawning - no sign of it yet.

7 Mar. Saw a starling visiting ^{an} ~~the~~ old nesting place in a house. where a pair had bred for several years.

Feb 28. Magpies inspecting there last year's nest

I have noticed a few starlings all the winter. 1884-5—

Mar 13. First noticed Jackdaws preparing to nest by visiting our ash tree & breaking off the small twigs, & flying away with them, they drop't as many as they carried

Mice —

Brought Forw^d —

9 | 9.

8 June 1 White B Dawson

3.

8 July $\frac{1}{4}$ Stone Oats.

3 $\frac{1}{2}$

17 Aug. Wood for $\frac{1}{2}$ doz

cages ready cut.

1 | 6

Wire Netting 4 Hinges 3

small fasteners 2 doz

9

1884 Cost of Keeping Mice

26 Nov	2 Fawn Mice B+D Mart	8
9 Dec	1 White Mouse D. "	4
The 3 Mice above died.		
	Bran 2 ⁰ Oats 1 ⁰ Letters 4 Scoop	8
	Wire 3 ⁰ 1/2 lb Groats 1 1/2 ⁰ Zinc Rails 2 ⁰	6 1/2
	Roofing Felt 7 1/2 - Wire 2 ⁰	9 1/2

1885

19 Jan	2 Black Mice DD Dawson	8
"	1 Chocolate D	6
	Wood for Cage Rhodes	2 3
19 Feb.	Zinc " " Procter.	6
	Iron Bar 7 ⁰ Lock 6 ⁰	1 3
10 th Mar.	2 White Mice B+D Mart	6
14 th Apr.	1 " " D died } these 3 mice	3
5 th May.	1 " Mouse D Dawson	4
"	1 " Fawn + White B	4
"	1 Choc. D	4
8 June	Changed for White B.	9 9
	Canned Food	6 11 21

LS

1884 Books Bought

26 Aug	Falerson's Zoology M	1	-
Oct.	Cassell's N History M	1	5 -
3 Dec	Fancy Mice Lou		6 $\frac{1}{2}$
<u>1885</u>			
june	Goldsmith's NH		
	in four volumes M	2	6
Aug 21.	Burns Wks. N		5

Photography

Dr.

Brought Forward

1 13 3½

1 June. 1 Sheet. P.P. Paper.

(Father)

1 -

Sale of group.

6 -

Week ending June 27

16. July - given by

Father towards

paying for Britannia

Plates which I

took to Scotland

10 -

Carried Forw-
folio 37

85

£

2 10 3½

[119]

Photography

Cr.

Brought Forward	6	6	11
16. May Pocket Thermometer			8
" Hydrochloric Acid			2
" Weighing Chemicals			3
1 June. 3 Sheets Pink P. Paper	2	-	
13 " 3 Sheets. Pink S. Paper	2	-	
17 " 1 doz India P. Mounts	1	9	
22 " 1 Bottle H. & R. Mounting Medium		6	
23 " 2 doz India Tinted Mounts	3	6	
26 . 2 Sheets Pink Paper 1 Sheet. Wh	2	-	
1 July Wood. retouch desk	3	-	
16 " 2 doz 1/2 Plates	14	6	
2 " 5 x 4 2 doz 1/4 Britannia Plates	7	17	3

Photography

Dr

Brought Forward.

16 - $\frac{1}{2}$

25 Apth Agent's Bromide Enlarge

—

including carriage, framed

—

complete. J.E. Grainger

16 4

27 Apth Allowed by J.S. Scrah

5.

1. May. Working Neg Father.

6.

£

1 13 3 $\frac{1}{2}$

6s

[121]

Photography

⑥

Brought Forward

5 14 2

21. Ap. 1 oz Pyro $\frac{1}{6}$ Potas Brom

2^o Amm. Brom: 4^o

Small drop bottle 9^o

2 9

" ^{see folio 58} Retouching Desk (wood)

" 1 doz India tinted

mounts, 12 x 9.

1 9

" Carriage of A. Bromide. (289)

1 -

25. Frame. Mount + 289

4 6.

" Carriage of Neg (back)

3

28. Working Neg. Father

6

16 May. $\frac{1}{4}$ oz R of Silver

1 .

X 1 oz Amm Bromide

3.

1 oz Nelsons gelatine

6

5 ozs distilled O_2H_2

with bottle 2 Test Sub

3

[122] £ 6 6 11

Photography.

D^r

Brought Forward	2	-
2/4/85 Neg of A Crossfield being defective allowed		2
8/4/85 Working Neg. of W Waite	1	-
10/4/85. 1/2 doz Cab. 1/2 doz. C.D.V. including - 1/- for Working Neg —— J.E. Grainger	6	-
15/4/85. ditto J.H. Anderson	6	-
15/4/85 1 doz 1/8 Rams plates Father		9
17/4/85 Photo: Album J. Beck	2	6
19/4/85 Rams 1/4. plate Father.	£	1 1/2
2/4/85 Argentic Bromide Print J.E. Grainger		
Carried Forward £	=	16 - 1/2

Photography.

Cr

Brought Forward	4	12	$1\frac{1}{2}$
25/3/85 Hooks & Eyes for Screen			$4\frac{1}{2}$
26/3/85 1 doz Derby Plates $\frac{1}{4}$		1	8
31/3/85 10 yds tape for Screen			6
2/4/85 Working Neg. Alb Gro:		1	2
8/4/85 " W Waite		1	-
13/4/85 2 doz $\frac{1}{8}$ plates Rams		1	6
" Enlarging Neg of JEG.		-	-
Argentic Brom - $\frac{4}{3}$ postage 3		4	6
" $\frac{1}{2}$ yd. Ferro Prus paper			6.
16/4/85 Wood for Garden Screen		4	6
17/4/85 Photo: Album I & Beck		2	6
18/4/85. 1 doz Derby $\frac{1}{2}$ plates.		3	8
21/4/85 Hinges for Retouching desk			2
Carried Forward, £	5	14	2

Cost of Photography D^{rs}

21/2/85 Working Neg of Miss H	1	-
-------------------------------	---	---

17/3/85 " Miss Cottam	1	-
-----------------------	---	---

Carried Forward	2	-
-----------------	---	---

Cost of Photography. Cr

Proportion of $\frac{1}{2}$ plate Camera			
Printing Frames ^{-/9/84} &c	3	9	-
Chemicals $\frac{1}{10}$ P. Paper 7 ²		2	5
1 doz $\frac{1}{4}$ plates Ramsden		1	6
12/2/85 " "		1	6
" 2 Sheets P. Paper P.W.		1	4
" Working Neg of Self.		1	-
16/2/85 " " of Miss H		1	-
" Camera &c from Milnes		8	-
16/3/85 2 Doz Cab Cards ^(4/6) ₍₁₀₀₎		1	1 $\frac{1}{2}$
" 50. C.D.P. $\frac{1}{6}$ p 100			9
" 3 Sheets P. Paper (wh.)		2	-
17/3/85, 1. foot. Plough. Wood			6
18/3/85 Work & Neg. J H A		1	-
" " J E G		1	-
Carried Forward £	4	12	1 $\frac{1}{2}$

Music bought by Edgar R. Waite

Six Album leaves —

Schumann 11 th Feb. 85 ² / ₄	1	8
---	---	---

Gipsy Rondo.

Mayer Steibelt 5 Mar. 85 ² / ₄	1	8
---	---	---

3 Characteristic pieces

Steibelt Mayer 5 Mar 85 ² / ₄	1	8
--	---	---

Dancing.

Jan. 7. 2nd Called on W^{rs}
Willis 61 Caledonian Rd
re Lessons in Dancing. her
Charge being 15/- for 10 lessons
but owing to my doing some
little thing for her she only
charged me 13/6 ~~(3/4 Meter)~~.

Lessons

1885

Private lessons. Jan. 5th 14th 21st

Class lessons. Jan. 7. 29th Feb 5th

Feb 12th - 19th - 26th Mar 5th 12th

{ Mrs Willis Miss Smith Mr Birkenhead
Miss " " " " " Newsam

Mrs Walker Miss Birmingham " Johnson

Miss " " Pelly " " Gullan

Miss Rhodes. " Marsden " Carr
" Beauver

[128] " Waite

Music

Dec. 28/85 wrote to Prof Parkin
re Pianoforte lessons

2 Louis St
New Leeds

Dec 31/84 Received letter
from Prof Parkin saying
that his usual terms were
3/6^d per quarter. but that
he would give me lessons
on his old terms viz 25/-

1885 Lessons.

Jan. 7. 13th 20th 26th Feb. 9th
Feb. 16th Mar. 2nd 9th 16th

Music bought by Prof Parkin.
Beethovens.. Rondo. in C.

Jan. 7. 20-1885. } 2 -

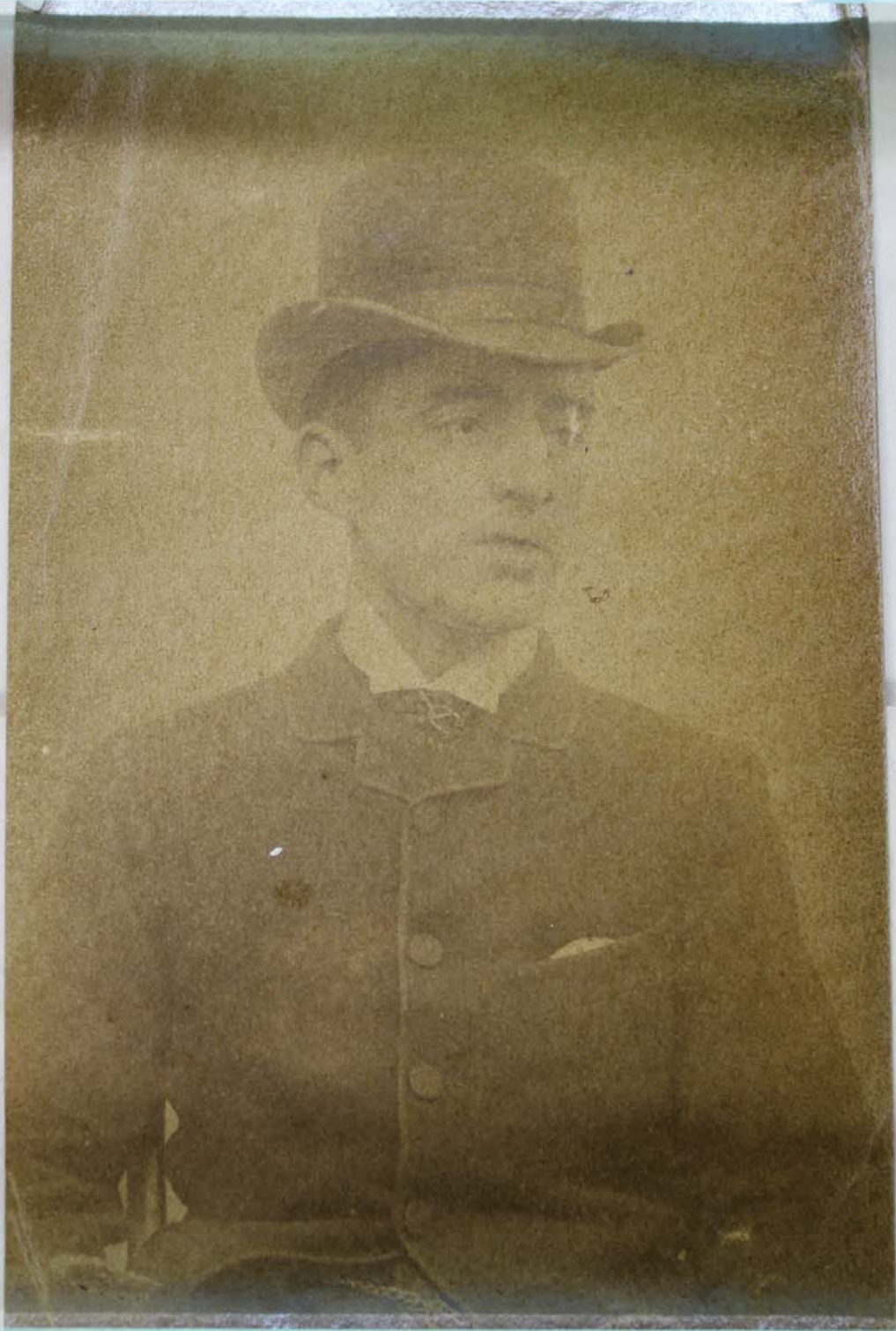
Blumenlied - Gustav Lange

Feb. 7. 9th 1885 ~~Paid~~ } 1 6



AMS 58713

[131]



AMS 58713

Stanys to Edgar

Remember me when morning's beam
To daily toil shall summon thee
And when the setting sun shall gleam
O'er ocean's verge, remember me,

Remember me when at the hour
Of morn or eve, thy knee is bent
Before His throne whose mighty power
Has safely kept, has mercies sent

Remember me, when the bright moon
At silent midnight, ^{shines} ~~falls~~ on thee
Should midnight be o'cast with gloom
Even in the gloom remember me

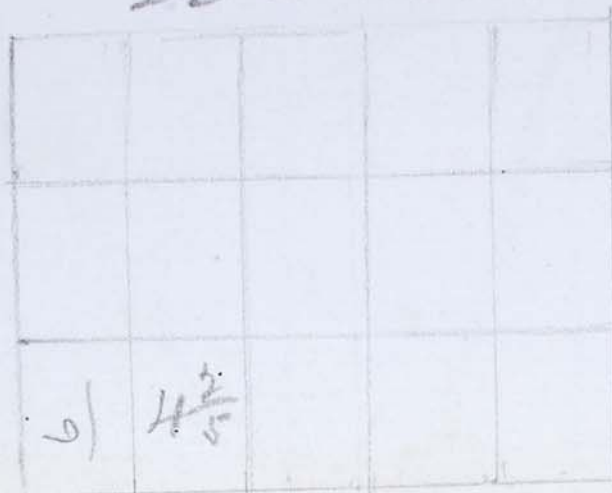
And when employ thy hands shall fill
At noon-tide hours, remember me
Where'er I dwell my heart shall still
With ardent fondness think of thee
to Edgar's

[1316]

How to cut 15 Cabinets out of a Sheet

22 inches

18 inches



$$\begin{array}{r} 5 \\ 3 \\ \hline 15 \end{array}$$

How to cut 42 C. D. R out of Sheet

22 inch

18 inches



$$\begin{array}{r} 7 \\ 6 \\ \hline 42 \end{array}$$

Eucrasia Paste.

White wax cut in Shreds. 1 03

Serpentine ————— 1 04

I thinned down if necessary until
of the consistency of Cold Cream

put a bit on the print & rub with
a piece of flannel until a firm fine
surface is obtained

Monty Photo

1-13-3 1/2
8
71-13-9 1/2

Fine cut gelatine or shredded glue
is swollen in the least possible
amount of $5H_2O$ & this is boiled with
Alcohol with much stirring Use
80 grains Nelsons No 1 gelatine
3 drops of water + 2 oz of Alcohol
When cool this sets into a
jelly & can be used by letting
the bottle stand in water - the
prints will not crackle the mount

$$\begin{array}{r} 4-15-11 \frac{1}{2} \\ \times 3-7-8 \frac{1}{2} \\ \hline 8-3-3 \\ 3-7-8 \frac{1}{2} \end{array}$$

$$\begin{array}{r} 22 \\ 3 \\ 4 \\ 6 \\ 3 \\ 3 \\ 4 \end{array}$$

but 2-2-2
Am 9-13-10
pape 9-13-10
1270
1034
115100
1800
512
1800

$$= \frac{8}{1} \times \frac{8}{50} \times \frac{8}{60} \times \frac{8}{64} =$$

$$\begin{array}{r} 18 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \end{array}$$