

## **Psychometric Inquiries**

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Psychometric Enquiries  
1876

University of London, University College, W.C.

The Francis Galton Laboratory  
for National Eugenics.

**GALTON BEQUEST.**

April, 1911.

Psychometrics



E. 1

Since Psychometric experiments and inferences  
 (Intellectual and emotional)

Wide field for investigation  
 Difficulties and ironies involved  
 Pall Mall experience  
 75 words

Recovery of faded consciousness (from below) A  
 (Intellectual and emotional states.)

Take as chief text of following remarks  
 3 categories 'abey' to

Frequency with which same idea was associated with same word.  
 Rate of ideas per hour - but without conditions  
 Equal before & after 21. Change of scene affecting recent after 21. - Mental Capital, if it knew it / had seen.

Nature of mental imagery  
 Hitherto

Some imagery  
 Verbal - when words are not wanted.

~~the late~~  
 Attention  
 Electro-biology comprehension - Puzzling over. Attention is negative not positive. of visual memory. - Can sleep in my faint idea.

Generalization Automatic etc. More fidget of cells - not associated - mental fields of view not uniform. madness, wear.

Generalization  
 Very vivid images  
 Mastering of subject

Memory of faint images - words in blocks. - sudden change occurs of words or adding an adjective.

Concreteness of small stimuli - large stimulus - focus - excitement. intoxication with infants. - Positive of body vibration.

(A) Recovery of faded consciousness Experiment of breathing - heart. Attention to

Unconscious. Consciousness deals with so little we subconsciously all the time. Planchette - scribbly at other scenes of ways & last.

Common sense - women's judgments - gives writer here no physiological reason to limit its completeness.

Mastering of a subject Logical sequence from those clear when hear a natural connection surround others they are cleared.

Some very vivid images (in above) - - - not always associated but due to automation in that respect, due to fidget of cells - madness  
 Usually very faint  
 Unconscious.



verse

'As when some well graced actors quits the stage'  
'Like the poor cat i' the adage'

'A peoples high acclain'  
'Too late, too late, you cannot late now'  
'Seemed always afternoon'  
'Forbore his own advantage'

'Should auld acquaintance be forgot'  
'Absence makes the heart grow fonder'  
'Affection we long time bore'  
'Multiplication is vexation be'

The ballad of Leonora  
Thackeray's ballad of little Billy  
Charge Chester charge

A latin Syntex verse ending 'abyssai'

Rose

'They are all abominable n--.  
'Abundance of corn and wine  
'Acceptable gift of the Lord  
'Son by adoption  
'The foolish virgin'

'Gagging a hen wagglehump - - "?"  
'Animal vegetable or mineral ?"  
'Great acquisition in a country house"  
'Up quoddy and at them'

Prose continued

E. 21

'Cool of the Evening'  
'Welcome little stranger'  
'Bell-the-cat.'



	Quotations	Places, & picture, books	Persons	Persons f. 3
V	- Late Suytay verse ending 'aby/sai'	Kirkstall Abbey	Dr Hodgkin	Adele
V	Ballad of Leonora	Bolton Abbey & road there	Sir Ch: Nicholson	Mossy
S	'As when some well-greased actors quits the stage' 'Gagging in his waggethief be'	Intern Abbey	Squeers	Lg. P.
V	- Thackray's ballad of Little Billy'	Robert Academy of Arts, <sup>London</sup> Piccadilly	Bishop of Llandaff	Lord Houghton
	- animal vegetable or mineral?	Styx	Quenter Curnow	Pitmead (Shorthand)
B	'They are all abominable ...'	Cave of Naples	Zazel	Pancha Panza
B	'Abundance of corn and wine.'	Laboratory in Birn,	Dorine	Plotteriswoode (Addy)
Ta	'a people's high acclaim'	Street in which Ansell lives,	Charles Keane	Syvester
V	'Should auld acquaintance be forgot'	Selling Lane Birn Office	Hamlet	Eratman (Accommodation)
B	'Refined virgin'	Boutin's gardens	Collect + relation	Capt. Abstitute
Ta	'too late, too late, you caund later now'	Brackenell,	Grocer actuary	Boutin, Peta-phew,
	'Up Guards and at them'	Zoological Gardens	Sherard Osborn	Graat Allea
V	'Charge Chester charge'	Cape Town	Adm. Hac	Graat Duff
V	'Afternum son 'long time I bore.'	Chambord	Croker Key	Sally
In	= Seemed always afternoon'	Laboratory in Birn	Inglefield	Edward the Conqueror
	'cool of the evening'	White Walls	Sir David Dundas	W. H. Gurney
V	'Absence makes the heart grow fonder'	Martha in lair of Lazarus	Portia	Hilly of Alexandra
B	'Acceptable gift of the Lord'	Jordan v Gehazi	Spence Bate	W. J. Stephen
Ta	'Forbore his own advantage'	Cave Sceptre	Edwards	Sir Bartle Treve
	'welcame little strangers'	Altar at Westminster	Wyllmet	Mania (Doge)
S	'Like the poor cat i' the aday'	The Magi	Edw-G. Webster	Debas
	'bell the Cat'	Afghanistan	Lounion (el Chambord) Ray Lancast.	
V	= Multiplication is regeneration etc'	Richards' Cards Doctor (picture)	Tertius & Grace (Palestine) Tyndall	Total 58
	'Great acquisition in a County house'	Born dual scene	Capt. Knott	= Trelawny & Speller
B	'Son by adoption'	College of Surgeons (Salisbury)	W. Lowe	
		Turkshorn (Graat duff)	W. Mortillet	
		Quinton Mattox (picture)	Alderman White	
		rounding hospital	W. Napell Gurney	
		= Jinx baby	Peterman	
			David	
			Gibson Walefield	
			Queen Victoria	
			King George	
			Uncle Hubert	
		Total 29		

(The above are sorted on another page)



substance matter  
 nothing zero  
 peculiarity oligocracy  
 natural congenital  
 posture attitude  
 situation  
 form shape  
 relation  
 sameness  
 antagonism  
 diversity  
 difference  
 various  
 uniform  
 resemblance  
 copy  
 accord  
 fitness  
 mean  
 compensation  
 & contrast  
 attitude antagonism aptitude idiosyncrasy  
 congenital diversity likeness homogeneity  
 matter situation shape transcript zero

substance matter sameness situation  
 peculiarity idiosyncrasy  
 posture  
 form  
 identity  
 natural  
 nothing  
 peculiarity  
 position  
 posture  
 substance  
 difference  
 form  
 identity  
 kinship  
 aptitude  
 uniform

attitude congenital  
 idiosyncrasy  
 matter  
 situation  
 zero  
 antagonism  
 diversity  
 homogeneity  
 sameness  
 shape  
 relation

substance matter material  
 nothing naught zero  
 peculiarity oligocracy  
 natural innate ~~inherent~~ congenital

posture attitude  
 position situation  
 form shape  
 relation  
 sameness  
 antagonism  
 diversity  
 difference  
 various  
 uniform  
 resemblance  
 copy  
 accord  
 fitness  
 mean  
 compensation  
 & contrast

substance  
 peculiarity  
 posture  
 position  
 form  
 kinship  
 identity  
 opposition  
 fitness  
 mean  
 compensation  
 & contrast



identity sameness  
 opposition antagonism  
 contrary opposite  
 difference diversity divergence  
 various diverse  
 uniform homogeneity  
 substance resemblance likeness  
 copying transcript  
 copy facsimile transcript  
 accord union  
 fitness pertinence suitability aptitude appropriateness  
 equivalence equality parity  
 mean average  
 compensation identification  
 & counterpoint balance equilibrium  
 greatness magnitude  
 smallness littleness  
 big large high  
~~unbalanced~~ matched  
 indefinite unbounded  
 cultural Wholly  
 modality ~~convertible~~ totally

Equivalent words

f. 4v

mighty powerfully  
 particularly singularly  
 uncommon unusually  
 wonderfully amazingly  
surprisingly astonishingly  
 nobly woefully (*Lamentably*)  
desately fearfully terribly worribly  
 dot speck  
 bit morsel

33.

Superiority preminence  
 come summit  
 greater major  
 exceeding surpassing  
 Supreme topmost  
 increase augmentation  
 enlarge amplify  
 decrease diminution  
 add annex  
 remove take away  
 remainder residue  
surplus overplus  
 miscellany medley  
 mix mingle  
 junction union  
 linking coupling  
 joint fracture  
 isolation separation  
break fracture  
sever divide  
tear lacerate  
section cutting  
detach disjoin  
slacken relax  
stick coherence

chain thistle  
 ruler dirode  
 string twine  
 tie ligament  
 sticky adhesive  
 laxity slackness

40



Series of trials allowed her each at the several trials					per 400	per 100
able	303	238	150	192	883	20
abashed	245	270	130	175	820	205
after	242	330	169	197	938	234
	<u>790</u>	<u>838</u>	<u>449</u>	<u>564</u>	<u>31659</u>	
	<u>2.6</u>	<u>2.8</u>	<u>1.5</u>	<u>1.9</u>		2.20.

day  $2\frac{1}{4}$  sec  
average

Histr.	Sense		Verbal		Meaning
	Sight	Other	Name	Quota-	
able	1				
abashed	1.7	1.6	1.7	22	2.2
after	1.5	1.4	-	1.4	2.0



by the total series	Associated in ideal notation occurring in the series			dates from
	able	abashed	after	
13	-	-	3	-
22	4	2	-	1
12	1	-	4	2
17	7	3	2	3
21	-	3	2	3
6	-	3	1	-

Bible (6),  
6 boghood }  
growth up to bear  
in manhood  
& repeat

Hence half my impressions were made before being college.

Repeated	of date				1
	1st	2nd	3rd	4th	
able	16	10	21	58	.
abashed	5	15	14	39	.
left.	8	11	22	70	.
	<u>29</u>	<u>36</u>	<u>57</u>	<u>147</u>	
	<u>112</u>				

The number of  
associated words, or mutations, that presented themselves  
with 4 trials | in 3 out of 4 | in 2 out of 4 | in 1 out of 4

No. of words considered	able	abas	aff.									
	26	20	29	26	20	29	26	20	29	26	20	29
Bible b)	-	-	-	-	3	-	-	1	2	-	-	1
Boyhood b.	4	-	1	2	-	-	-	-	-	4	1	-
Earth Y	1	4	2	-	4	2	4	2	-	2	5	3
Neurology	7	-	3	3	2	3	4	1	1	2	4	8
Recent r	-	-	-	3	1	-	1	-	-	4	4	6

Total

(b) Day	5	4	3 <sup>12</sup>	2	7	2 <sup>11</sup>	4	3	2 <sup>9</sup>	6	1	4 <sup>16</sup>	48
mor	7	-	3 <sup>10</sup>	6	3	3 <sup>12</sup>	5	1	1 <sup>7</sup>	25	8	14 <sup>17</sup>	76

wall 4 | in 3 or more | in 2 or more | at least once

Total

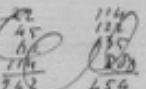
(b), b day	5	4	3	7	11	5	11	14	7	17	20	11
m & r	7	-	3	13	3	6	18	4	7	43	12	21

Total

Total	12	23	32	48
26+20+29				
= 75 cases	10	22	29	66

4 times  
over

$$\begin{aligned} \text{Number of separate ideas} \\ \text{that occurred during the four trials, } \} & 105 & \text{able} \\ \text{of 75 cases - each case occupying} & 73 & \text{abas} \\ 2.2 \text{ sec} \} & 111 & \text{aff.} \\ & 289 & \end{aligned}$$



$$\begin{aligned} \text{Number of ideas whether repeated} \\ \text{or not that occurred as above} \\ \text{that is of } 4 \times 75 = 300 \text{ cases} \\ \text{during } 6.60 \text{ sec. or } 11 \text{ minutes} \rightarrow 505 \\ \text{or } 22.75 \text{ per minute} \end{aligned}$$

505 ideas in 11 minutes = 1100 sec

in 1 idea in 1.15 sec.

$$\begin{aligned} \text{say } 50 \text{ in a minute.} \\ \text{say between } 1 \text{ to } 1\frac{1}{4} \text{ sec. or } 3000 \text{ in an hour.} \end{aligned}$$

$$\begin{array}{r} 505/60(1.15) \\ 505 \\ \hline 550 \\ 505 \\ \hline 550 \end{array}$$

Afternoon  
Abreviation  
Ability  
Annegation

Later eaten "Seemed always afternoon 4. 'Cool of the evening' (L<sup>2</sup> Houghton) 1.

A little square pamphlet (? Pitman or O'ell) that I have about short hand 3. Pitman's name 1. <sup>Confused idea in whl Spanish name occurred 1</sup> The new was of brief writing 1

A sense of doing things easily & with slickness 3. A facer like man working deftly 1.

Abnormal  
Abreave  
Abstemious  
Abstract  
Acceptable  
Accelerated  
Accommodation  
Achievement  
Absolute  
Abstract  
Actuality  
Adequate  
Advantage  
Aesthetics  
Acquirement  
Acquisition  
Athene  
Adjudication  
Administration  
Adoption  
Adulteration  
Adventitious  
Acoustics  
Adage  
Addition  
Adjective

Deviation from a straight line (half imagery, half historic) 2. words "out of the common way" 1. vague <sup>for a while</sup>  
"make the heart grow fonder" 4. Scale of a road owing to a departure 1. puzzled for a while 1.  
a sense of empty stomach and leanness 3. also of making & seeing a grim visage 1. A putrid <sup>of surgeon</sup> idea of King 1. Sancho Panza 1  
"Marie 7. fond of abstract subjects" 3. Sense of difficult consideration of something 1. Spiller words, but also abstract 1. Silverstein name 1.  
"acceptable gift of the Lord" 2. A girl accepting a lover 1. An accepted lover 1. Vague idea of a man <sup>with</sup> ~~in~~ a kind <sup>metaphysical</sup> love 1. Sense of a kind  
The word "accelerated" "Railway insurance" 2. --- "cause" 1. --- "poisoning" 1. — Metaphysical intent 1.  
Accommodation land & grammar 3. — a w.c. 3. Money lending matters 1  
A sense of action 1. Coat of arms 2. A chivalrous fighting 1. — The mere word 'glorious' occurred 1.  
"Captain Absolute" 4. Sense of command 1. Boatload <sup>verbally</sup> metaphysics 2. The absolute in logic (verbal) 1.  
Appearance of lawless deeds 2. verbal of - dictionary 1. — idiom 1. — thought 1 — Sense of a taking away 1.  
A good general idea of solid existence 1. words "caught in the act" 1. Puzzled in vain 2. partly puzzled 1.  
The word "ouch" 2. Puzzled wholly 2. — in part 2.  
"Forbore his own advantage" 4. Sense of being on a little defend; self against opponents 1. Sight of a goat doing so 1  
Grant Allen's name 3. (in two of these the word Great diff. associated itself & in one of these his house at Twickenham also)  
verbal "of Latin & Greek" 2. — View of a middle class <sup>with me written at Coleridge 2. Sally 6</sup> Seminary <sup>is some failure 1. gadabout</sup> & rubby fingers thumb like board  
"a great acquisition in a country house" 4. No. 4. name occurred 1. — a miser like that of Quintus Matus 1.  
Plaster 4. an acquaintance sticking to me 2. — postage stamp 1.  
Sense of delivering judgment 2. Of seeing it delivered 2. The late Recorder 2. Hills Alexandrian. by Stebbins 1.  
sense of administering 2. of a solo official establishment 1. Name of Bartle Frere 2. name of Gold Coast 1.  
Foundling Hospital 1. If a boy 1. of a son 1. — words "adoption by Grace" 2. "See by adoption" 1. <sup>of chemist de Ferri</sup> <sup>tiny baby 1. manager 1</sup>  
General sense of mixing 1. words 'adultery' 3. of wine 3. Debuse the claret 1. Ray Lancaster's name 1.  
Imperfect idea 1. words ado: particle" 2. a stranger 1. "Welcome little strangers 1. claimant to an estate 1.  
My whistler 2. Tyndall 2. Ticker a Spiller 1. A stretched strong vibration 1. a general idea of the science of 1.  
'Like the poor cat o' the adage' 3. "Bell the cat" 1. View of a scroll worn by some people like Beadmen 1.  
Multiplication & repetition to 4. — A sum 1.  
Something thrown at 4. The mental sense of throwing 1



Revised Date  
Jan 13/79 after lunch - C.R.

	(1)
Abbey	2½ as a place
Abovian	2½ Dr Hodgkin - Australian aborigines & his Ch: Natives
Abovian	2½ Bishop of Roman & my abscess in neck - Squeezed & got
Abovian	Quinton Courtney - a view of a golf - course later
Abovian	3 Syntactic Indigo with 'abysmal'
Academy	2 Newspaper (saw it in imagination) - word 'dalle arte'
Accommodation	2 Salutation of a cavalry officer as passing in place but without waving a horse
Acc	2 Cards in a spread at pack, the black above the ones of some of the cards being visible, rest the card itself Naples & Monte ... (because colour of building) - a cavern out of which a small river came - the word Stige
Actor	2 A sense of making a wry face as a taste of acid
Aerobat	1½ In aquarium prepared for Zazel - the word 'Dare' (it being the theatrical name of some acrobat now advertised)
Actor	2 Town's name - as when some well-known actors (e.g., the
Actor	1½ 2 name Coleridge relative - The square where I went to call on Abbott
Adder	The word Puff Adder - Hollow garden wall near which were the mound excavated by the adders
Adjointant	1½ He tried staggering about. - 'Eagging in his wagging as a long bitter frost'
Admiral	2 Inchfield - Maelroy's battlefield about little Billy
Advocate	2 'Devil' - the same says as I stopped before it closed
Afternoon	1 Land when 'always afternoon' - Cool off today! (C. H. H. H.)
Afternoon	2 Down to basement floor - Dair
Abbreviation	1½ Pitman's system (says a little & uses book with short-hand characters in a label on its side)
Abduction	1½ Gibbon Warfield.
Abhorrence	1½ Attitude like Mary in variety of dangerous (half-felt and half-seen)
Ability	3 A sense of stickiness - nothing come definitely.

43 ¾

Continued

	(2)
Abduction	1 Dolan - saw hand waving above elbow, like Arabic
Abrogation	1 Widdig off a person (I saw & felt)
Abroad	5 Nothing definite
Abomination	1½ "No not one" - felt reacted with mouth & nose
Abrasion	1½ Skin rubbed (felt) warmer
Absence	2 "makes the heart grow fonder" - nothing definite
Absolutism	1½ Attitude with hands in front holding the clasped hands of planted knees
Abstention	2 A linking in stomach & lower flanks - also a green village
Abstain	1½ Mr French about me - Sister's name
Abundance	1½ A cornucopia - ab. of corn & wine (historical)
Accelerate	1½ A wheel rolling swiftly down hill - word 'accelerated velocity'
Acceptable	2 An accepted lover - 'acceptable gift of the Lord'
Accusation	3 of Queen Victoria - then a jingle & acting definite
Accident	2½ Insurance - poison
Accommodation	2 vox populi - 'people's high acclaim'
Accommodation	1½ A commode - accommodation land & furniture
Acidity	1½ Vinegar. Old Cooley
Achievement	1½ Memorial bearing
Absolute	1½ Captain Absolute - the absolute in logic
Abstract	2 Thought - appearance of a dead abstract
Actuality	3 Not definite enough to description
Adequate	2 (again made a note)
Advantage	1½ For bore his own advantage - sense of being on the off of a hill-side defending oneself against opponents
Aesthetics	1½ Great stuff. Walk with written at Seelisberg
Acquaintance	1 Should adult acquaintance be forgot
Acquaintance	1½ Greek & Latin - views of a middle class school in some suburban town of heater
Acquisition	1 'Great acquisition is a country house' in the Cassells' history
Activity	2 A running about like the chicken - something about quicksilver
Adhesive	2 Sticky plaster - postage stamps
Adjudication	1½ Sense of delivering judgement - image of Sir J. Stephen
Administration	2 Feels of a solid official establishment - name of Great Day

101 ½



Continued overleaf

continued from previous carried over 101½		3	carried over 149½		4	P. 8v
Admiration X	2	To a theatre - by	Aigle	1	Life by Bay - Napoleon 1 <sup>st</sup> cycle in arms	
Adoption	1½	Son by adoption - Manin (I had just been hearing the story of the 2 <sup>nd</sup> manin having acquired that name by adoption.)	✓ Albion	1½	Lone - a series of 12 distinct, of one	
Adoration X	2	Mazi - attitude with mouth in an O and breathing out an oh h!	✓ Albany	1½	W.M. Mortlock - a thin quarto oil	
Adulation X	2	A licking with the tongue - M 24	✓ Alderman	2	White - view of view of Martin House at Dens	
Adulteration	1½	of wine - adultery,	✓ Alencon	1½	View of the Stein - the laboratory at Berlin gradually sheep itself stand it	
Advance X	2	Afghan campaign - order given to advance	✓ Alluvium	2	Of Rhine valley - mud haze nothing clear after	
Adventitious	2½	Thought vaguely of adventitious. . . particles.	✓ Ahmed	1½	De Grotta - thought of Petermann	
Acoustics	2½	No whistle - Tisley & Spiller	8 words	150½	reduced to penmanship	
Adaze	1½	Like the poor cat ! 'the adaze'	100	184		
Addition	2	... multiplication is as bad ..."				
Adjective	2	Some sort of idea of its real meaning - then something thrown at				
Acupuncture	2¾	Cold red wall - got the phrase 'joined to'				
✓ Animal	2	animal, vegetable or mineral? — Smell of wild animals				
Advantageous	2	... marriage - thought of Romance				
Adversity	1½	'Sweet are the uses of adversity ...'				
Adore	1½	Good advice - 'ah gentle dame, it gav me much ...'				
Adiform X	2	Gas vapour - Paris balloon				
Affable	2	The face and face action of an affable man - Bishop				
Affection	1½	The sentiment				
Affiance X	1½	Laying a hand in that of another person - a heart sentiment of trust				
Affinity	1½	Affective affinity, sense of - Terrell tying together, story				
Affliction X	1½	Affliction sore long time I bore				
Affluence	1½	Heart affluence in discursive talk ...'				
Affront X	2	A person & a drawing up of a mated figure with hand on hilt				
✓ Agent	1	Edwards - without				
✓ Aque	1½	My own (a feeling of it) - 'is dim and melancholic as an <sup>age</sup> 1½				
Aide de Camp	2	Knowles at Aldershot				
	149 ½					

Continued



- Abbey Kirkstall 3 Boller 3 Tuileries 1 Face of an Abbess. 1  
 Aborigines Hadzakia 4. Austria corvus 2 a lot of black flocks 2 in Ch Nicholson 1. Parrot's feathers 1.  
 Abrep Squares 4. Some of abrep in self style 1. In cat 2 - oil painted room Buda Hospital 1. Birch leaves & my own neck 1  
 Abyss Quinque Curtius 4. Looking at or down a chasm 4. Desolate Scatay verse ending with 'abyssus' 1.  
 Academy Acad 1; des beaux Arts 1 débâcle 1 <sup>Parva</sup> the newspaper 2 Image of picture of Academy of Athens 1. <sup>des pluri noms</sup>  
 Accountment. Saddlery of a Cavalry soldier 3. Sabretache alone 1. Ballad of Leonora 1.  
 Ace A card showing the blank above the ace, but ace not seen 2. In a room sitting down cards 1. The word - <sup>ace of diamonds</sup> Ace of diamonds 1. <sup>dance-ace 1. also (parva) Ace 1. Paul 1.</sup>  
 Achern The word Styx 4. Cavern by Nipper 1. Cavern out of which a stream ran 1 - A zig-zag gorge or canon. 1  
 Acid A sour taste in mouth 4. Making a wry face 1. A fig with Sardis 2. Star of negro blown up with Sardis 1 a latrator 1 "in Persepolis 1  
 Aerobat Zazel 2 her name 1. Aquarius filled up for her 1 4. A person twisting round a pole 2; turn 1 has my heels in face 1. <sup>was 1 was 1 her first 1 the theatrical name now obsolete 1.</sup>  
 Actor Irvine 2. Charles Kean (name only) 2. Hamlet 1 "or when some well graced actor leaves the stage" 1.  
 Actuary Young 1 - Cell in Ansell 2, his name 1 3 - Coleus 1 relative 2. --- 200 <sup>th</sup> officers who have gone mad. 1 Scene of entering some Room 1  
 Adder Boulton garden 4 - the word puff-adder 2. Brackenfells, not recollecting at first that they referred to the snake adder 1. Zoo 1  
 Adjustat Bird stalking about 2, ditta up Euse 2. Gagging in his waggonship 3. Thought of Cape Town 1  
 Admiral Sternd Osborne 3. Hay 1. Cooper key 1 Inglefield 1 a man in Admiral's uniform 1 Thackeray's ballad of Little Billy 1.  
 Advocate Sir David Dundas 1. Portia 1. He deems 1. Touch of back a wig of a person pleading 1. Scottish brief generally a look - man 1.  
 Animal Animal, vegetable & mineral 3. Stance Bête & Bête noir (Ch: boar, bed pig bee, etc etc) 1. Something hairy 1. Small of them 1  
 Argent Edwards 4. Wilmot 3 (C 2nd think a 3 cases of little name at the moment) Edward G. Wheler 1. Term of reproach 1.  
 Aque My own issue 4. Androm & meagre as an issue-fit 2. Lorina at Chambord 1. Tertius & Grace going to Palestine 1.  
 Arche de Camp Knowles at Aldershot 4. Gallantry about of mounted officers in tufted hats 3.
- (Arboretum)*  
 Attribo M. Lowe 2. An individual view of one 1. ditto of some small white animal in a cage 1. Cretins 1  
 Albaum M<sup>1</sup> M. L. Image of a quarto Vol. 1  
 Alderman White 4. A city dinner 2. Turtle shaped man 2 the late Recorder 1  
 Alembic The thing itself surrounded by the laboratory at Birn 4. A retort on a stand 1.  
 Almariam Of Rhone valley at Geneva 3. My plan to lecture illustrations 1. A thinning broad river 1  
 Almanach de Gottha 4. A book like De La Rue 2 Nautical 1. Thought of Petermann 1.





	Number of occurrences	Average		Other large	Total number of cases	Average	Hesitri	Source	verbal	
		4	3	2	1	4	3	2	1	
Abey	4 3 2 1/2 2 1/2	-	-	2 - 2	m	3 1		9	311	5
Aborigines	5 2 1 1/2 2 1/2	1	-	2 2	m	3 2		4	21	41
Abrep	5 2 1 1/2 2 1/2	1	-	1 2	y	1 3		4	21	4
Abys	4 2 1 1/2 3	2	-	- 1	b	1 1	1	6	4	4 1
Academy	3 2 1 1/2 2	1	-	2 2	m	2	5	m 5 3/4	21	1 m
Accomptement	4 2 1 1/2 2	-	1	- 1	m	2	1	4	31	1
Acc	3 1/2 2 2 2	-	-	1 5		2	4	1	2	11
Achem	4 2 1 1/2 2	1	-	- 3	b	3	1	m	111	4
Acid	4 2 1 1/2 2	2	-	1 4		1 2	1	m b	21 4	1
Acrobat	3 2 1 1/2 1 1/2	1	-	1 2	r	3 2	1	r	2121	11
Actor	4 2 1 1/2 2	-	-	2 2		1	3	yy by		221 1
Actuary	3 2 1 2 1/2	-	1	1 2	r	2 2		m	21	121
Adder	3 2 2 2 2 1/2	4	-	2 2	r	1 1	1	m	411	2
Adjulaat	3 2 1 1/2 1 1/2	-	1	2 1	b	1 2	1	m	221	3
Admiral	3 2 1 1/2 2	-	1	- 5	r	5	1	5m	1	3111 1
Advocate	4 3 2 2 2	-	-	- 5		3 1	1	m b	1	11 1
Animal	3 2 1 1 2	-	1	- 4	b	2	3	m	1	1 311
Agent	2 1/2 2 1/2 1 1/2	1	1	- 1	m	3		r		431
Age	2 2 1 1/2 1 1/2	1	-	1 2	m	1	2	yy m r	4	11 2
Aide de Camp	2 3 1 1/2 2	1	1	-	m	2			3	4
Albino	1 1/2 2 1/2 1 1/2 1 1/2	-	-	1 3		3 1		m	411	2
Albam	2 1/2 2 1/2 1 1/2 1 1/2	1	-	- 1	b	1		1	1	4
Alderman	2 4 1 1/2 2	1	-	2 1	m	2 2		m	2	42
Almber	1 1/2 2 1/2 1 1/2 1 1/2	1	-	- 1	b	1 1			41	
Alleurain	2 2 1 1/2 2	-	1	- 2	m	1 2		r	1	31
Almanach	3 1 1/2 1 1/2 1 1/2	1	-	2 2	m	3 1		r 2	21	1 4
<hr/>										
per cent	81.62 39 50 232	16	10	21	58	6=60% 7=70% 8=80%	53 24	1 26	22 66 5 63 26	
	363 238 150 192	47	58	20	105	2=20% 3=30% 4=40%	104		12 44 2 32 17	% of instances
		64	30	42	58	6 6 9 1 m 10 r 4		4 4 2 2 4 26 r 4	1.8 1.5 2.5 2.0 1.9	% of occurrences each instance

Abrasion



	Number of Occurrences	among the				Total	Historical	Verbal
		4	3	2	1			
Abaseinent	3½ 3 1 2	-	2	1	1	(6)	1	3.2 3
Abduction	3 3 1 1½	1	-	-	2	9	1	+ 4.1
Abhorrence	4 2½ 1½ 1¼	-	1	-	1	4	3	3.1
Ablution	4 1¾ 2½ 1	-	1	1	1	(6)	3	1 2
Abominable	2½ 2 1¼ 1½	+ 1	1	2	(6)	21	11	3
Absolution	3 2½ 1¾ 1½	-	1	-	2	11	1	
Abundance	3 1¾ 2 1½	-	1	2	-	(6)	2	2 3
Acceleration	3 1½ 1¼ 1¾	1	-	-	4	4	1	1.1 4
Accespin	1½ 1¼ 1¼ 3	-	1	-	3	4	11	3.1
Acclamatin	1½ 1½ 1 2	-	2	1	-	2	3	3.3 3.3
Acerbity	3 2½ 1½ 2½	-	-	2	2	2	1	22
Aquaintance	1½ 3½ 1¼ 1	-	1	-	2	4	1	3.1
Activity	2 7½ 1¼ 2	1	-	-	2	m	4	1 1
Admision	1½ 3 1½ 2	-	2	-	2	yr	1?	7 3.1
Adoration	2 2½ 1 2	1	-	1	2	(4)	211	4 4
Adulation	2 4 1¾ 2	-	-	2	3	yr	221	11
Advance	1½ 2½ 1 2	-	-	2	3	6yr	2	2 1 11
Affiance	2½ 3 1 1½	-	1	1	2	r	1	2.1 3
Affliction	2 2½ 0¾ 1¼	1	-	-	2	4	1	1 + 4
Affrost	2 3 1¼ 2	-	1	-	3	m	3.1	11

20

per cent	1				(3)	(1)	1	5 6	43 33 7 24 38	n.s. of instances
	49	54	26	4						
	265	270	130	175	34	39	2	4	26 21 4 11 17	n.s. of occurrences
					20	45	28	39	1.7 1.6 1.7 2.2 2.2	of observations
					-	2	1	4	1.8	mean
					132	-	1	-		standard mean

	Number of occurrences	Relative incidence of article among other articles				Total	Written Series		Verbal Puzzles
		4	3	2	1		4	3	
Afternoon	3 3 1½ 1	1	1	m	m		1	2 1*	
Abbreviation	3½ 1½ 2 1½	1	2	m	m		1 3	1*	1
Ability	2½ 3 2 3	1	1				3 1		
Abnegation	3 3 1½ 1	1	1	2					
Abnormal	4½ 4 3½ 5	1	1	2			2 2	2 1 3	
Absence	2 1 1¼ 2	1	2	4			1	4 1	
Abstentious	2½ 2 2 2	1	3		9		3 1	1 3	
Abstain	3 2 1 1½	1	3	4½ rr			1	1 3	
Acceptable	2½ 2 1¼ 2	1	4	(6)			1 1	2	
Accredited	1 2½ 1¾ 2½	1	3				1	2 1	
Accommodation	2 1½ 1½ 1½	2	1	m			1 3	3	
Achievement	3 3½ 1½ 1½	1	3				1 2	1	
Absolute	2 3 1 1½	1	1	2 4 m			1	4 2	
Abstract	1½ 3 1¼ 2	1	4				1 2	1 1	
Actuality	2 4 2½ 3	1	3				1	1 3	
Adequate	3 5 2½ 2	3					2 2	2 2	
Advantage	2 3½ 1¾ 1½	1	2	m			1 1	4	
Aesthetic	2 3½ 1¾ 1½	1	1	1 m r			2	3 1	
Acquiescent	3 7 4½ 1½	1	4				11	2 1	
Acquisition	2½ 7 1½ 1	1	2	m	rg		1	1 4	
Adhesive	2½ 4 1¾ 2	1	1				2 1	4	
Adjudication	2 2 1½ 1½	3	2				2 2	2 1	
Administration	1½ 4 2 2	2	3				2 1	2 1	
Adoption	2½ 2 1¾ 1½	1	6	(6) (6)			11	2 1	
Adulteration	2 4 1¾ 1½	2	3				1	1 3	
Adventitious	3 3½ 1¾ 2½	1	5				1	2 1	
Acoustics	2 3 1¾ 2½	2	3	(2)			1 2	3 1	
Adage	2 3½ 1 1½	1	2	4	4		1	3 1	
Addition	3 3½ 1½ 2	1	1	6			1	4	
Adjective	2 4½ 1¾ 2	1	1				4 1		
per cent.	69 9½ 4½ 57 27 18 11 22 70 1 2 1 3 6 242 330 169 197 41 70 3 3 1 8 7 4 m 32 33 44 70 - - - h 6 r	5	5	3	18	32	38 32 - 23 74 13 27 23 - 16 38 13 1.8 1.4 - 1.4 2.0		
	179								



Ablatement  
Abduction  
Abhorrence  
Ablation  
Abominable  
Absolution  
Abundance  
Acceleratin  
Accespin  
Acclamation  
Acerbity  
Acquaintance  
Activity  
Admispin  
Adoration  
Adulatatem  
Advancem  
Reforms  
Affiance  
Affliction  
Afront

a ground (basement) floor 3. The open foundations of a house being built 2. David 3 - Sense of bending down 1  
 Gibbon Wakefield 4. a recent Irish case 1. Sense of a running away with 1.  
 Martha in the raising of Lazarus half felt & half seen 3. Ill defined picture of Macbeth 3 witches 1.  
 washing hands in Turkish fashion 3. Jordan & Gehazi 2. General sense of hooks & water 1.  
 "They are all abominable (Nature). 3. Sense of withdrawal and disgust 2. Smell, taste & muscular sense  
 a priest waving hands 3. Mental attitude of hands in front clasping thy good hand 1. <sup>acting with mouth & nose 1.</sup>  
 "abundance of corn & wine" 3. a cornucopia 2. a pouring out from lap 2.  
 the word "accelerated velocity" 4. Sense of a falling through 1. A stone rolling down hill 1. an open page of Carr's  
 "Queen Victoria" 3. King George 1. <sup>Spurred 1. Image of previously itself 1.</sup> Alter at Westminster 1. Coronation scene began to form 1.  
 words & sound of shouting & acclamation 3. ~~the~~ people's high acclaim 3. vox populi 2.  
 Cooley 2. Vinegar 2. Sense of a vinegar expression and taste 1. Vinegar look in Uncle Hubert's face 1.  
 "Should auld acquaintance be forgot" 3. A general sense of handshaking & bowing 1. words 'bowing acquaintance' 1.  
 General sense of running & mobility 4. Actions in English men of science 1. Something about quicksilver 1.  
 In a theatre (words) 3. b-y 3. The foolish virgin 1. Too late, too late, you cannot enter now 1.  
 Magi 4. Hand lifted up (sense of a right) 2. Sense of breathing out an Oh-h 1. Sense of prayerful heart 1.  
 Sense of active & passive soft soldering 2. Sense of licking & slavering 2. Adele 1. M<sup>2</sup>H 1. Sense of prais 1.  
 As spoken to troops 2. Marching with soldiers 2. Afghan campaign 1. "Up guard & at them" 1. "Charge  
 Chester, charge" 1.  
 L.P. 3. A giving of hand 2. A heart sense of trust 1. A royal marriage 1.  
 "Affliction sore long time I bore" 4. General sense of 1. Eye lifted up Carlo Dolce fashion 1.  
 Troux & head on <sup>(with slight variations)</sup> hilt of sword 3. A forward person 1. Sense of savagery 1. Bonn duel 1.





1/3

Oct 18/78.



f. 1r

Psychometrics



		1 <sup>st</sup> attempt - Sept. 1 dare sudden exposure E view seconds an blue From <del>water</del> that arose	2 <sup>nd</sup> attempt - Sept. 28 <sup>th</sup> secs. First ideas that arose
Word			
sudden exposure			
E view			
Abby	4	Tintern <del>Bolton</del> I 3½ Kirwall	I
		<del>Bolton</del>	I Bolton (I had forgotten the name)
Aborigines	5	8 <sup>th</sup> Hodgkin Op 2 <sup>nd</sup> D <sup>2</sup> Hodgkin Op	
		Australians at a corroboree Portfolio of pictures of aborig.	
Abseps	5	Squeen Op 2 <sup>nd</sup> Squeen cutting the abseps	
		Front parlour room Birn Hosp.	
		Sense of abseps in one of my drawings	
Abyss	4	Looking down a chasm 2½ a chasm	I
		<del>Quintus Curtius</del>	<del>Quintus Curtius</del>
Academy	3	der Beaux Arts W 2 <sup>nd</sup> Academy newspaper W	
		<del>of Horace</del>	A faint image of modern Athens
		Fitzwilliam Museum Cambridge A. der Beaux Arts W	
Accoutrement	4	Cavalry horse & blue & gold I 2 <sup>nd</sup> Saddle gear of a cavalry horse	
		<del>Saddle gear</del>	
		Ballad of Leonora	
Ace	3½	Besique W 2 <sup>nd</sup> a card	I
		Inside a room setting down E cards	
		the word 'ace of P. Paul's' kept recurring (they seem nonsense)	
Acheron	4	Styx W 2½ a zigzag gorge in canyons I	
		Flavours of Naples (indistinct)	
		The word Styx	
Acid	4	Labor at Birn where I learn <sup>Chemistry</sup> I 2 <sup>nd</sup> some laboratory in others	I
		Slight acid taste in mouth	
		a sour taste	I
		a fizzy	
		story of negro kind of electricity blow up	
	9	20½	

		Total number of ideas	Total number of which were repeated twice thrice etc.	F. 25
3 <sup>rd</sup> attempt Oct 17 Dec. See First ideas that arose				
1/6 the face of an abbess	I	6	2	
Name of Kirkstall				
1 <sup>3</sup> / <sub>4</sub> , D <sup>2</sup> Hodgkin	Op	6	1 1	
A lot of black fellows at Coritona				
1 <sup>1</sup> / <sub>4 view of me (in myself) ripe the cat</sub>	H	6	1 1	
Name of Squires				
1/6 a ragged charwoman	I	6	- 2	
Quintus Curtius				
1/6 of art	W	8	1 -	
Leighland's name (not now spoken of as probable Pretendat)				
1 <sup>3</sup> / <sub>4</sub> The black blue & gold Sabre -tash of a cavalry officer.	I	4	- 1	
2 the word ace of diamonds	W	6	- -	
Wm deuce ace				
1/2 Styx (merely the word)	W	6	- 1	
1 <sup>1</sup> / <sub>4</sub> slight acid taste	I	8	- 1	
I a fig with Seidlitz.				
13 <sup>3</sup> / <sub>4</sub>				
		56	6 7	
		33 = (6 x 2 - 12 + 7 x 3 = 21)		

	carried over	29½		20½	F. 2.v
9 Acrobat	3 Twisting found a pole in #2 some high building	I	a tight rope and formed one turning round it	I	
	I Hazel	I	Hazel	I	
Actor	4 Irvine	Op 2½	'Hamlet' W		
	Upname of Charles Kean		I an actor growing into Irvine		
Actuary	3 Street w wh: <u>Audell</u> lives I	2½	... (Colenso's cousin) I		
	I Confused sense of entering into some office? in Birmingham		I Confused imagery		
Adder	3 Boulton's garden I	2	Boullion's garden I		
	I Zoology - Garden				
	Drachenfels (I thought of them & did not at first recall my adventure with the snake)				
Adjutant	3 Saw bird stalking to fence I	2	The bird stalking I	I	
	I Thought of Cape Town		I Idea occurred, but e. said recall words, <u>gaggling in wagging</u> I		
Admiral	3 Sherard Osborn Op		I Admiral of Italy Op		
	I Portsmouth dockyard		I A <del>mean</del> admiral, uniform Sherard Osborn		
Advocate	4 Scottishness generally (in #3 look and manner)	3	a quick thought of many I		
	I Sir David Dundas		I think, none definite Portia (the name) I		
Afternoon	3 Lotos eaters "always afternoon"	3	"Seemed always afternoon" W		
	I Telt it was an afternoon at the time of experiment (in Tours)		I Then a pause, & nothing clear succeeded		
Abatement	3½ The open foundations of a house being built	I	3 Sense of bending down H		
	I A vague sense of David		I King David		
			a ground (basement) floor		

13<sup>3</sup>/<sub>4</sub>156 <sup>repeated figures</sup>  
before 7

f. 3r 2

1<sup>1</sup>/<sub>2</sub> a man turning heel over <sup>I</sup> b - 2  
head in space

I Zazel's name

1<sup>1</sup>/<sub>2</sub> Charles Kean (only the name) <sup>W</sup> 5 2 -

2 W. .... (who has gone mad) <sup>I</sup> 6 1 -

Wandell

2 Puff adder (the word) <sup>W</sup> 6 1 -

I Boulton's garden

1<sup>1</sup>/<sub>2</sub> the bird sitting up to cartridge <sup>I</sup> b 1 1  
W gagging in his waggon <sup>I</sup> & co

1<sup>3</sup>/<sub>4</sub> name of Sherard Osborn <sup>W</sup> 7 - 1  
Vn. <sup>W</sup> Copper Key

2 Image of the back of w<sup>g</sup> and shoulder of a barrister pleading <sup>I</sup> 5 - -

1<sup>1</sup>/<sub>2</sub> "seemed always afternoon" <sup>W</sup> 5 - 1

Q

1 the word 'ground floor' <sup>W</sup> 7 3 -

I Image of foundations of a newly building house

14<sup>1</sup>/<sub>2</sub>

$$\begin{array}{c} 109 \\ \hline 65 = \{ 3 \times 2 = 26 + 13 \times 3 = 39 \} \end{array}$$

word suddenly exposed to view	during No of seconds	First attempt Sep 1 be	Second attempt Sept 28 &
18] Carries over. 59		" " 40%	
Abbreviation	3½	Pitman's name Oh 1½ Book about writing by abbrev. <i>Much confused idea in it looked like Odell's short hand</i>	I
Abduction	3	Gibbon Wakefield Oh 3 a running away with H <i>The recent Irish case Gibbon Wakefield</i>	
Abhorrence	4	Well defined picture of Macbeth, 2½ mental attitude of uplift H <i>watcher (arranged with 3 others) I hands exerted face like Martha in raising Lazarus</i>	
Abrility	2½	A lawyer-like man working deftly 3 a sense of doing things easily H <i>nothing more definite</i>	
Ablution	4	Very general sense of brooks & wash 1¾ washing hands in Turkish ritual H <i>Especially Gehazi in Jordan</i>	
Abnegation	3	Shaking the head in refusal H 3 nodding head in refusal H <i>Something about women's abnegation</i>	
Abnormal	4½	Deviating from straight line (half 4 imagery half muscular sense) I H words, "out of the common way" (not very <i>definite in all this time) W</i> Coll: of Surgery, teratology	
Abominable	2½	Sense of withdrawal & disgust H 2 sense of distaste I <i>(the taste was faintly affected)</i>	
Abrasion	4	Skin off hand & upper arm, with 1¾ a rubbed sore I <i>a faint pain</i>	
Absence	2	Void through a defective H 1 Going away H <i>"Absence makes the heart grow f." "absence makes the heart l."</i>	
Absolution	3	a priest in chancel waving hands 2½ a priest waving hands I <i>the sense of being absolved</i>	

3<sup>rd</sup> attempt Oct 17<sup>th</sup>  
First ideas that arose

Total No.  
of ideas  
recorded

out of which  
occurred  
twice thrice

p. 4r 3

28 $\frac{1}{4}$

109 13 13

2. The new way of brief writing I 5 - 1

Image of Odelli book on short-hand

1 Gibbon Wakefield H 5 - 1

1 $\frac{1}{2}$  Turning away head & lifting hands H 3 1 -  
as in picture of Martha a widow of Lazarus

2 Very vague sense of facets in H 3 1 -  
action (nothing more definite in time)

2 $\frac{1}{2}$  washing hands turned fingers H 5 1 -

then washing face & ears

1 $\frac{1}{2}$ (?) Nodding off H 4 - 1

3 $\frac{1}{2}$  Puzzled all this time & nothing puzzle  
definite came.

1 $\frac{1}{4}$  neutral attitude of disgust H 5 1 1  
some disagreeable smell  
"They are all abominable"

2 Sealed & tight of a painfully rubbed H 3 1 -

& raw Surface  
1 $\frac{1}{4}$  "Absence makes the heart a" H 5 - 1

1 $\frac{3}{4}$  Faint image of a priest waving H 4 - 1  
hands

48 $\frac{1}{2}$

155 18 19

$$q = (18 \times 2 + 3h + 19 \times 3) = 57$$

Word suddenly seen	First attempt to see. First thoughts	Second attempt to see. First thoughts
Carries over	First attempt to see. First thoughts	Second attempt to see. First thoughts
29/ Abstentious	95 " " : 66 $\frac{1}{4}$	
Abstentious	2 $\frac{1}{2}$ Putting away things + 2 a sense of hunger I Sancho Panza's dinner at Doctor	
Abstract	3 sense of difficulty considerable + 2 of some undefined subject T. Spofford's address Brit Assoc W.T. T. fond of abstract subjects	General feeling of it + an open page of Carr's Synoptics
Abundance	3 a pouring out from lap + arith 1 $\frac{3}{4}$ a honking cub I Something about abundance of corn oil	Scriptural abu of corn wine
Acceleration	3 word 'accelerated velocity' W 1 $\frac{1}{2}$ Heale of a falling through the symbol V <sup>2</sup> presented itself	accelerated velocity W An open page of Carr's Synoptics
Acceptable	2 $\frac{1}{4}$ a girl accepting an offer I 2 Theague idea of a man in kid gloves	a bland smilingness + Something about engagement in marriage
Acceptation	1 $\frac{1}{2}$ the word 'King George' W 1 $\frac{1}{4}$ words 'Queen Victoria' W Image of a coronation began to form	Altar at Westminster Abbey
Accidental.	1 Railway accident insurance W 2 $\frac{1}{2}$ the metaphysical view of I made a blunder while the stop watch attention became diverted	
Acclamation	1 $\frac{1}{2}$ Vox populi W 1 $\frac{1}{2}$ voting by acclamation I Hotely acclamation at the Geogr Soc's	voting by acclamation in Terminus over the water of Wellington
Accommodation	2 Money lending matters H 1 $\frac{1}{2}$ accommodation land W What must about accomodation land!	Accommodation land A. W. C
Acerbity	3 Vinegar H Saying sharp things	2 $\frac{1}{4}$ vinegar expression & table H Old Cooley (I could not find recollect)

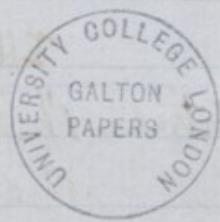


Third attempts. See First thoughts	Total thoughts	out of which occurred twice thrice	f. 5r
48/2	155	18 19	
2 a sense of leaness & empty stomach I	4	1 -	
1 "Master 7 fond of abstruse subjects" W	5	1 -	
2 a cornucopia pouring out I	6	2 - ✓	
<sup>W</sup> abund' of corn & wine'			
1/4 accelerated velocity W	6	- 1	
1/4 word 'acceptable gift of the Lord' W	5	- -	
1/4 of sovereignty & throne I	6	2 -	
<sup>W</sup> Queen Victoria			
1/4 'accidental cause'	W	4 1 -	
<sup>W</sup> the metaphysical meaning was beca. - my & form itself.			
1 vote by acclamation ±	6	1 1	
<sup>W</sup> Kirk acclam' ? words in Temperance ode & death of Duke of Wellington			9
1/2 thought of a W.C. & the absurdity of the idea kept others out of my head. I	5	2 -	
1/2 vinegar look in Uncle Haber's face	5	- -	
63		207 27 21	
117 = { 2 x 27 = 54 + 3 x 21 = 63 }			117

		First attempts Sept 1 to in view clue seen	Second attempts Sept 2d to and First thoughts
Word suddenly exposed 39 carried over	47 3/4		84 1/2
Achievement	3	a sense of action (noticing & left, I made a mark of it)	3 3/4 a chevalrous fighting # the same word 'glorious' occurs
Absolute	2	Capt. Absolute Sense of command + <u>M. Boulton's metaphysics</u>	3. Capt. Absolute 1/4 Boulton's metaphysics (This was not formed as a clear idea)
Abstract	1 1/2	3 things, I know but can't recall them.	3 a taking away H Lawyers deed +
Actuality	2	Things existing. (a good general idea)	4 Could not get a clear idea all this time
Adequate	3	(too abstract - no clear idea)	5 (Vague, the word 'enough' W (slight recurring))
Advantage	2	'Forbore his own advantage' Tuanzen W	3 1/2 Scene in a hills country of a fort on a hilltop cutting down other goats, to forbore her own advantage
Aesthetics	2	Sully	1/4 Grant: Alleas name but 1/4 did not fit further than Grant was made me think about Sully her house at Tivoli where
Acquaintance	1 1/2	A Bowring acquaintance H	3 1/2 Should acquaintance be frosty? A general sense of hand shaking, an avoiding
Acquirement	3	Gain	H: 7 Latin, a Greek - (the W idea was not fixed)
Acquisition	2 1/2	a good acquisition at a W country party Wurtz-Hertz name occurred	7 "a good acquisition" W I
Activity	2	Sense of running H Albert in English Men of Science	7 1/2 (can't fix my ideas they are in words) General sense of mobility
50	142 1/4	135 1/4	F. 5v

f.6r 5

Third attempts Oct 18-19				
See	First thoughts.	Total of wh. occurred thought twice thrice		
63		207	127	21
1½	Coat of arms. - tried at least 4 meaning (and failed) in time.			
1	Capt. Absolute	W	6	1 1
1½	of dictionary	W	7	
1	Index			
2½	'Caught in the act'. (I puzzled a good deal)	W	3	- -
2½	'Enquiry' (word equivalents were very hunted for in vain)	W	3	1 -
1¾	"Forbore his own advantage"	W	4	- 1
1¼	Graat allen.	W	5	2 - ✓
1¾	'Should acquaintances be forgot'	W	4	1 -
4½	a puny body with 'great' acquisition and countenance (I met took the word)	W	4	
1½	(see above) - gain → #	W	4	- 1
1	A master like Queen Matilda!			
1¾	General state of nimble	W	4	1 -
	changes of position			
83/4		255	32	24



	First attempt	Second attempt
word 50   carries over	Sec <sup>3</sup> 142 $\frac{1}{4}$ First thoughts	Sec <sup>1</sup> 135 $\frac{1}{4}$ First thoughts
adhesive 2 $\frac{1}{2}$	Plaster	w 4 adhesive plaster w
	<u>An acquaintance sticky tone</u>	<del>Friends</del> who can't be shaken off
Adjudication 2	<u>sense of judgment</u> #	2 sense of judgment #
	<del>I</del> <sup>H</sup> as judge at Alexandria	<del>I</del> <sup>H</sup> the late Russell Gurney
Administration 1 $\frac{1}{2}$	general idea #	4 of Gold Coast w
	<del>W</del> the word "chemin de fer"	<del>W</del> Bartle Frere <del>R</del>
Admiration 1 $\frac{1}{2}$	The foolish virgin w 3	# ?
	<del>L</del> too late, too late, you cannot be	<u>to theatres</u>
Adoption 2 $\frac{1}{2}$	Something including Foundling hosp w	2 of a baby
		<del>W</del> Tinx's baby
Adoration 2	Heart praying #	2 $\frac{1}{2}$ the Magi
	<del>M</del> Magi	# hands lifted up
Adulation 2	Sense of active & passive <sup>soft solders</sup> #	4 Praise
	<del>soft solders</del> thought of Adele	<del>W</del> Soft solders
Adulteration 2 $\frac{1}{2}$	general sense #	a sense of licking
	<del>W</del> reference to wine	4 adultery
		<del>W</del> Wine & Beer
Advance 1 $\frac{1}{2}$	marching with soldiers 2 $\frac{1}{2}$ slight sense of forward motion	Naz leicester's name (as suggested by analysis)
	<del>W</del> "the guards w at them"	"Charge Chester charge!"

Third attempt

f.7c 6

sec  
83 1/4 First thoughts.

Total	occurred
255	twice twice
32	24

1 1/4 Plaster

W 5 1 1

1 1/2 mental attitude of judge b 1 1

~~W~~ Campbell Earney

2 Mental attitude W 6 1 -

~~W~~ Chi Bartle Frere

1 1/2 ? W 6 2 -

W into a theatre

1 1/4 of a son W 5 1 -

~~W~~ Adoption by grace

1 of the Magi W b 1 1

~~W~~ Faint sense of uplifted hand

1 3/4 a sense of licking &amp; slavering b 1 -

2 1/2 adultery W 7 1 -

~~W~~ Debris & the cloud

1 An spoken words in battle W 5 - -

97

$$\begin{array}{r} 307 \\ 163 = \{ 2 \times 14 = 82 + 3 \times 27 = 81 \} \\ \hline 41 \\ 27 \end{array}$$

Word	First attempt seen above)	Second attempt seen above)
suddenly shown	First attempt seen above)	Second attempt seen above)
59   carried over	160 $\frac{1}{4}$	163 $\frac{1}{4}$
Adventurous	3 general idea H 3½ adventurous particle W word "particle" in grammatical sense	Claimant to an estate
Acoustics	2 Science of I 3 Tyndall 50% They whistle Topsy - Spiller	A stretched string vibrates
Adage	2 "like the poor cat, the adage W 3½ a scroll worn by some people Bell - the - cat	like beadman - very bad kind image
Addition	3 a sum W 3½ Multiplication is repetition of "W "W" (addition) is as bad "	Something like ? wheat
Adjective	2 <u>throwing stones</u> H 4½, Something thrown at the Iced abd other water in water	
Adjunction	4 <u>Piecing in</u> H 4 Something joined to I	The German word "fügen" occurs rather the unformed idea of it
Animal	3 Something hairy I 2½ As a term of reproach W animal vegetable mineral ??	Spence Bate & bête noire joke at Horatio Spence bad and beast joke.
Advantageous	3 Blackberry jam (bl'keər bē) 3 Shrub paste like the idea of Dick Fair (ad) Benigna Fairford Harley terms	Blackberry Hester big jam W acquainted with Dick Fairford
Adversity	3 "Sweet are the uses of adversity" 3½ Sweet are the uses of "ad" ? Something like ? wheat.	(in a pause or nothing like occurs)
Advice	2½ "A gentle dame, it can me good 3½ good advice W Thought of Louisa	"A gentle dame to"

Third attempts (not allowed)	Fourth thoughts	Total thoughts	Q which occurred twice thrice	4.85	19
97		307	41 27		
1 1/4 A stranger	w b	6	1 -		
	<del>Welcome little stranger</del>				
1 1/4 Treadall	W b	6	1 -		
1 "like the poor cat i the adage"	w	4	1 -		9
1 1/4 Multiplication is vexation to W	5	-	1		Q
	<del>Steadily wringly addition came with it verse.</del>				
1 1/4 Something thrown at H	4	2	-		
	<del>The mental attitude of throwing</del>				
2 Piecing to	H	5	2 -		
	<del>The German word 'fügen'</del>				
1 "animal vegetable & mineral"	w	5	1 -		
1 <del>Shrimps haste &amp; Dick fastness</del>	w	5	- 1		9
1 1/4 Sweet are the uses of Adv:	4	-	1		Q
1 "Ah gentle dinner be"	w	5	- 1		Q

109 1/4

$$\begin{array}{r} 356 \\ 191 = 2 \times 49 = 98 + 5 \times 31 = 93 \end{array}$$

165

Word		First attempt dict. First thoughts	Second attempt dict. First thoughts.
suddenly <sup>seen</sup> <sub>discovered</sub>		187 $\frac{3}{4}$	197 $\frac{3}{4}$
carried over			
Perform	2 $\frac{1}{2}$ <del>performed</del>	Vapour W	3 <u>Eas</u> W
		Captive balloon at Paris	Captive balloon at Paris
Affability	3 $\frac{1}{2}$ <sup>at Bonn</sup> Royal Booth's establishment	Reckoniff & Reck on Hahn	Ch. Swan (blond & speckled) (had recently been laid)
	Sweetness		
	Sir R. Murdoch humbugg		
Affection	2 $\frac{1}{2}$ 2	The sense of affection #	2 <u>Structural friends</u> or <u>W. P. G.</u>
		Various name occurred	5 I <u>L.P.</u>
Affiance	2 $\frac{1}{2}$ I	Royal marriage. I	3 Evening of hands #
		Carey in French as above, L.P.	Attar & Sir L. P.G.
Affinity	2 $\frac{1}{2}$ I	G. Darwin & cousin marriage, 2 $\frac{1}{2}$ Chemical	W.
		Confused general idea including baboon.	G. Darwin's name of new kin
Affliction	2 "Afflicting sore" <sup>time bore</sup> long W 2 $\frac{1}{2}$ "Afflicted sore, long..." W		I
		General idea	
Affluence	2 Sense of easy distribution <sup>wealth</sup> I	a pouring out from a cornucopia	
<sup>You are now in place</sup> <sup>where you don't need much.</sup>		the word £3000 a year occurs	'heart affluence' (temporarily overrunning)
Affront	2 Town & sword dragon 3 I Bonn duel.	a frowning affronted person	
Agent	2 $\frac{1}{2}$ Edwards I 2 $\frac{1}{2}$ Edwards	Sense of savagery	
	+ Wilmot	Wilmot	{ think of the name in time

<u>Third attempt</u>	<u>Told of which occurred</u>				
<u>Second allowed First thoughts</u>	<u>through twice thru</u>				
109 $\frac{1}{4}$	356 49 31				1.95 8
2 Gas w	6 2 -				
I a balloon					
1 A face (Bishop Bond V) with I <small>an alluring friend expression</small>	6 - -				
1 $\frac{1}{2}$ Feminine gracefulness I	6 1 -				
I L's P					
1 L's P	± 5 1 -				
1 $\frac{1}{2}$ in love matters	± 7 1 -				
Selection affinities					
the lady who'd been given away <small>at Zermatt</small>					
0 $\frac{3}{4}$ "Affection score tiny w"	5 - 1				Q
<small>Ever lifted up Carlo Dolce fashion</small>					
1 $\frac{1}{2}$ a horning out of wealth	6 - -				
Albert Grant					
1 $\frac{1}{2}$ a crown & hand in flower					
1 $\frac{1}{2}$ Ed. Wheeler	10 $\frac{1}{2}$ 6 + 1				
<u>Edwards</u>					
121 $\frac{1}{4}$	403 55 33				

Word	First attempt	Second attempt
suddenly disclosed	<sup>see</sup> <sup>first attempt</sup>	<sup>see</sup> <sup>first attempt</sup>
Carried over	209 $\frac{1}{4}$	226 $\frac{1}{4}$
aque fit	2 <u>Louisa at Chambord</u> I <small>(we were in the house of Louis there)</small> My aque	2 $\frac{1}{2}$ my own aque + Tertius & Grace going to Palestine
aide de camp	2 Capt Knowles galloping <sup>V</sup> Galloping officers in coaches	3 Knowles galloping <sup>V</sup> Officers in <sup>were rapidly about</sup> hats
Aigle	2 <u>Napoleonic</u> + 4 Aigle near Bay w Aigle in the Rhine Valley	Aigle near Bay w The French eagle
Albinos	1 $\frac{1}{2}$ Albinos in Africa w 2 $\frac{1}{2}$ Robert Lowe \$ Cretinism	Robert Lowe \$
Album	2 $\frac{1}{2}$ Mrs M	2 $\frac{1}{2}$ Mrs M w <small>(a book of album appears in Lucy Wheler's books)</small>
Alderman	2 Alderman White w 4 Alderman White w Alderman generally	Alderman White w a city dinner $\frac{1}{2}$ R. Gurney
Alembic	1 $\frac{1}{2}$ Laboratory at Birnau 2 $\frac{1}{2}$ Retort (not alembic) on Slabs	2 $\frac{1}{2}$ Laboratory surrounded <sup>I</sup> the laboratory I worked <sup>I</sup> in in Birnau
Alluvium	2 View of a Shining river my plan for lecture illustrating delta of Rhine (Lake Geneva)	2 Bucklands name <sup>V</sup> Valley of Rhine at Geneva Generalized idea
Almanach	3 A generalised almanac $1 \frac{3}{4}$ Almanach de Gotter Almanach de Gotter	Almanach like that (De la Rue but generalised)

Third attempt See allowed	1 Total thoughts	of which occurred while thinking	F. 10c	19
121	5403	55.33.		
1 1/4 'as dim & meager as an aquafit'	7	- 1		
I my own aquae				
In 1st hills				
1 1/2 galloping about of <del>myself</del> <sup>#1</sup>	6	- 2		
I Capt Knobster at Aldershot				
1 1/4 by Key	w 5	1 1		
1 3/4 <del>an abstract albino</del> <sup>(F)</sup>	4			
White ferrets a smelling in a cage				
1 1/4 my M (I recollect I w had thought of this before)	6	- 1		
Scrap books bought yesterday				
1 1/4 Alderman White w	7	- 1		
I a turtle shaped man				
1 1/2 (?) The they itself in <sup>I</sup> Born laborator	5	- 1		
1 1/2 Delta of Rhone	7	- 1		
1 3/4 de Gotra	w b	1 1		
I Nautical				
132	456	57 42		

Word suddenly disint.	Secs	Time	Secs	Second
87   carried over	228 $\frac{3}{4}$		246 $\frac{1}{2}$	151
reduced to percentage,				
100	252		283	

seed  
134

Three

Total of which  
Thought occurs  
throughura thura

f. 11c 10

→ 456 57 42  
should have been  
\* 58 41 See p. 3.

154

scale  
occurrences

524 65 48 → 155  
~~274~~  $\frac{2 \times 155 = 130 + 3 \times 48 = 144}{250}$  → 48  
→ 250

Total different thoughts 363

about an even chance that an association will occur once it has occurred twice - Also that if a thought occurs twice it is almost an even chance (58:41) that it will occur a third time

Distribution of duplicates (58)

ab and ac 29 cases  
bc 29 "

ba 58

a = 1<sup>st</sup> attempt; b, 2<sup>nd</sup>; c, 3<sup>rd</sup>

as only a fortuitous step between b & c this double proportion looks like uncorrelated memory.

A was taken Sept 1<sup>st</sup> at Tours France  
B — Sept 2<sup>nd</sup> at Le Havre France  
C — Oct 17<sup>th</sup> at Rutherford Park  
D — Jan 13/79 at Kinston Park

Continued from previous page

- |              |   |                                    |
|--------------|---|------------------------------------|
| Adventitious | 2 | Welcome little stranger            |
| Animal       |   | Animal vegetable or mineral        |
| Ague fit     | 8 | as thin and meagre as an ague fit  |
| Affluence    | T | Heart affluence in discursive talk |

Summary

		Total thoughts
1 in 28. blank	9 <sup>10</sup> (singular) out of 250	
1 in 5.3 Q	9 (triplicates)	48
1 in 13.09	5 (duplicates)	65
	<u>23</u>	

Hence when a quotation gets associated with a word, it is apt to prevail above all other kinds of association.  
Strongly confirmed next page.

Analysis

5	Bible	
3	Shakespeare	
4	Tennyson	
1	Other good poetry	W
2	doggerel	X
2	good prose	Y
3	not otherwise	Z
<u>24</u>	<u>23</u>	
	<u><u>23</u></u>	

The associations are none of them of very recent formation  
they must have been made from boyhood onwards.



## Quotations in First thoughts.

F. 125 //

### 23. Quotations

$Q^1$  = quadruplicate  
 $\wedge Q^2$  = triplicate

$Q^1$  = duplicate of three + occupant  
 $\wedge Q^2$  = duplicate with 4 lines

- |                   |  |          |
|-------------------|--|----------|
| $Q'$ Afternoon    | Tennyson "Seemed always afternoon"             |          |
| $Q'$ Abominable   | Bible "they are altogether become abominable"  |          |
| $Q'$ Absence      | W "absence makes the heart grow fonder"        |          |
| $Q'$ Acclaim      | Tennyson "                                     | "Leaves" |
| $Q'$ Advantage    | Tennyson "for bore his own advantage"          |          |
| $Q'$ Acquaintance | W "Should cold acquaintance be forgot"         |          |
| $Q'$ Acquisition  | Z "a great acquisition to a country house"     |          |
| $Q'$ Adage        | Sh "like the poor cat i'the adage"             |          |
| $Q'$ Addition     | X "multiplication is vexation, &c."            |          |
| $Q'$ Animal       | Z "animal, vegetable or mineral?"              |          |
| $Q'$ Adversity    | Sh "sweet are the uses of adversity"           |          |
| $Q'$ Advice       | W "Ah gentle master it giv me greet &c"        |          |
| $Q'$ Affliction   | X "Affliction sore long time I bore"           |          |
| $Q'$ Adjacent     | X boy gagging in his waggeskness &c            |          |
| $Q'$ Abundance    | Bible of corn & wine ? words,                  |          |
| $Q'$ Acceptable   | Bible acceptable gift of the Lord              |          |
| Actuality         | Bible caught in the very act                   |          |
| Admiration        | Ten "too late, too late, you cannot enter now" |          |
| Advance           | X { Up guards and at them                      |          |
| "                 | W { Charge Chester, charge                     |          |
| Adoption          | B Adoption by grace                            |          |

continued on opposite page

5 singles  
5 duplicates  
9 triplicates

3. B. Bl  
1 Shakespeare  
2 Dickens

This shows  
confusion remains  
last page.

Combining this & the last page

Singles	quotations, <del>of books</del>	9
	Scenes & characters	<u>5</u>
		<u>14</u>

Duplicate quotation	5
Scenes —	<u>5</u>
	<u>10</u>

Triplet quotation	9
Scenes a	<u>9</u>
	<u>18</u>
	<u>42</u>

Hence a Triplet if there is nearly twice as common  
as only a Duplicate & more common than a Single  
After trying a fourth round on Jan 13-14/6879

Quadruplicate	quotations	9. all triplicates recurred
	Scenes b	<u>5</u>

Triplet only	quotations	7
Scenes A,		<u>8</u>

Duplicate only	quotations	2
Scenes B		<u>1</u>
Scenes C		<u>6</u>
Scenes D		<u>4</u>

f. 13r 12

~~1918~~ Fiction Scenes & characters from ~~History & fiction~~ ~~Literature~~

3 Squeers

<del>4</del> Abcess	3	D Squeer
<del>4</del> <del>abscission</del>	3	<del>St Hodgekin</del>
<del>4</del> Abyss	3	Quintus Curtius
3 Accoutrement	3	Ballad of Leorona
3 Acheron	3	Styx
1 Actor	1	Sh. Hamlet
3 Adjutant	3	The bird stalking to the faze
3 Abasement	2	B David
4 Abduction	3	Ebbon Wakefield
3 Abhorrence	2	Attitude of Martha in "Rising of Lazarus"
1 Ablution	1	B Gehazi in Jordan
1 Abslemous	1	Fuchs Panzer dinner & the doctor
3 Abstruse	2	Master F fond of abstract subject
3 Abundance	2	Cornucopia
4 Absolute	3	Capt. Absolute
<del>Other</del>	2	Sally Jane
"	2	Grant Allen
1 Admision	1	B The foolish Virgins
3 Adoageous	3	Sick Gristford & the Shrimph Paste
1 Affidum	1	Carlo Dolci's Madonna
4 Albam	3	W <sup>m</sup> M
2 Affabilitz	2	D Pecksniff

From the 3 sets in this book only

First	Imagery	Hesitation	words	V/P Person	words - Nouns
Second	I H Vh W	I H Vh W	I # Vh W	I # Vh W	I # Vh W
p. 1.	III	II III	II	III	III II I
2	II III	II II	III	II	III I
3	III I I	I	I I I	I	III II
4	I I I	III	I III	II I	I II I
5		I	III I	II	III
6		III	III I	II	III
7	II	II	I II		II
8	III I I	II	III I I	II	III
9	III I	II	I	III	III
	31 3 6 20	19 3 6 16	14 3 3 -	34 5 2 11 14 3 3 -	48 8 5 11

first  
second)  $\frac{37}{100} \frac{60}{158} \frac{100}{10:16}$

$\frac{76}{100} \frac{44}{58} \frac{100}{10:3}$

$\frac{20}{17} \frac{52}{47}$   
 $\frac{53}{100} \frac{72}{36} \frac{100}{10:9}$

$\frac{H}{I} \frac{Vh}{Vh} \frac{W}{W}$   
 $\frac{31}{19} \frac{3}{3} \frac{6}{6} \frac{20}{16}$   
 $\frac{14}{3} \frac{3}{3} \frac{3}{3} -$   
 $\frac{34}{98} \frac{5}{14} \frac{2}{17} \frac{11}{47}$

64

First presentation  
Imagery 60  
Hesitation 44  
words 72

Second presentation  
98  
24  
64

M Yh H I  
64 98 24 64

I I  
64

Analysis of results

f. 145 13

~~Deaf scenes & characters~~

26 words ('above' series) of visible objects

20 words ('abasement' series) of word, that might be acted

29 words ('affection' series) of more abstract ideas.

75

These were gone over 4 times, viz in

1878 Sept 1 and 2 & 3 subsequent days at Tours in France

" Sept 28 in - at Leamington

" Oct 17 in - at Rutland Foli

1879 Jan 13 - at Rutland Foli

On the first trial	occupied	an average of 2.1 sec <sup>2</sup>	considerately
second	-	2.8	
third	-	1.5	General average 2.2
fourth	-	1.9	secs

The total n° of ideas that occurred in the  $4 \times 75 = 300$  trials = 505  
 which at the above rate of  $2.2^{\frac{sec}{trial}}$  had trial, or in a  
 total of 1110 sec in 1 idea in each  $1.15$  sec.  
 say 50 per minute or 3000 per hour.

The total n° of ~~separate~~ different ideas is only  $\frac{505}{289}$   
 therefore the difference of ~~the~~ recurrerence =  $\frac{21h}{505}$

Percentages calculated from Table below  
Different ideas

'Abbey' series	Puzzled	Historionic	Sense imagery		Verbal Association		Total
			Sight	other senses	Person in place	gestures	
'Abbey' series 26	11	41	2		30	16	100
'abasement' series 20	33	27	5		14	21	100
'afternoon' series 29	(11)	26	22	-	15	37	100

Different ideas

'Abbey' series	Puzzled	Historionic	Sense imagery		Verbal association		Total
			Sight	other sense	Person in place	gestures	
'Abbey' series	-	12	44	2	32	17	107
'abasement' series		26	21	4	11	17	79
'afternoon' series	(13)	27	23	-	16	30	104
	(13)	65	88	6	59	72	290
			290		289	calculated below	

f. 15  
14

more than half of the associated ideas, were familiar to me before the date of leaving College. This proportion holds <sup>equally</sup> for ideas occurring 1, 2 or 3 times, and I think is true for non-repeated ideas. (But the introduction of 2 large exceptional batches has caused some uncertainty here.)

The quotations that occurred, are

	verse. Tennessee	4
	Shakespeare	2
	Others, some fit dogged	8
Prose	Bobble	5
	Others, some fit dogged:	7
		27

Places, pictures & books

Persons	29
	58

114

### Total Ideas

	Puzzles	Historical	Gease Imagery	Sight Other Senses		Verbal	Percent place	Cumulative
				Sight	Other Senses			
'abbey' series	26	17	22	hh	5	h3	26	
'abasement'	20	17	13	33	7	24	38	
'afternoon'	29	13	38	32	—	23	71	
All	75	13	84	159	127	97	110	135
			103	131				
			491	505				
						out of the 505		

*psychological*  
Since experiments are ~~afforded~~ ideas and references

F. 16 15

wide field for investigation always at hand it is out of doors day or night. — but great fatigue ~~due~~ of first so freely the mass of extraneous thoughts that it does work freely, then by a sudden revelation to turn round upon it & collect what it has done. — very distasteful intellectual work — like trying to recollect names of which the faintest possible echo remains.

Sight of intellectual scenes alone & not of the least timid ones.

By ~~all~~ these means imagery

repeated p. 22 at length  
the scene imagery in which we are spectators <sup>both of action & episode</sup> all in one

The permanent background of the scenes that does not pertain to the image is variable & the same in complete darkness whether the eyes are open or shut, but there is a local train of thoughts when the eyes are often closed interfering with the mellow <sup>a little</sup> ~~calm~~ of ordinary reverie or thought.

As to mental voice, the repetition of poetry & sonorous lines gives much the same pleasure as actually hearing them, yet enough isolated words ~~do not~~ are not sufficient. The rhythm probably helps in this effect as it firms call.

The practice of generalization teaches us to refresh vivid imagery of definite objects; moreover as we grow older our mental images grow fainter (Dante Byron).

The images are very faint by the help of which we reason, so much so that if our brain work was limited to that part where lie <sup>fairly</sup> within the ~~limits~~ of our consciousness, I do not see how we could get on at all. Examples — a circular is half of my table.

walked up eye cabinet the following time words 'an Agreement will be submitted to the Councillor and approval of the Proprietors' - <sup>however much read is taken</sup> the Sealeycroft Block is intelligible <sup>capable of</sup> leaving impression, in which we are sure to act like an impression to abiding that we can rely on its recurring when the matter with which it deals may be again discussed, but the impression is ~~had~~ obtained by ~~feeling~~ <sup>feeling</sup> to ~~feel~~ the Motion of the ~~feeler~~ what to me in first reading it would were impression of the faintest character. Not one of the 5 words, - Agreement, submitted to consideration, approval, & Proprietors ~~left~~ was fully later in. The block impression was produced ~~at long~~ <sup>almost</sup> painless by unconscious brain work.

The difficulty & disturbance of experiments on our own mental operations ~~to feel~~ comes in the effort to bring back into the grasp of consciousness mental operations that had slipped out of it. Their echo, an extreme brief & faint, but by <sup>a effort</sup> raked and keen attention, many of them may be ~~heard~~ caught that in a fraction of a second later would have been entirely lost. ~~I took~~ <sup>the more</sup> I ~~had~~ experienced ~~so~~ I became the more wonder I felt at the narrow limits of the area ~~within~~ which ordinary consciousness overflows & the more I felt able to bring back a large layer of mental action against within its ~~its~~ province, which had lapsed from it. It cannot be

too emphatically maintained that while the varied & vast operation of the brain be likened to the multitudinous waves, ~~relations & affinities in the super smooth heavy surface~~, <sup>clear water,</sup> of a vast ~~heavy~~ ocean, those of which we are conscious <sup>no more than</sup> merged in surf ~~which~~ out where other waves ~~do~~ break ~~on~~ the dash ~~to~~ against the circumference there.

The prelude to my experiments was as follows. One afternoon late winter afternoon, feeling in a humor to undertake the task, I walked homeward from my Club of the Athenaeum Club down Pall Mall, considerably with eagerness and interest that caught my eye and at the same time keeping bad watch as I was able without disturbing the free work of my brain, upon the ideas that successively crossed through it. The distance in question occupied as I have since found - - minutes to walk and in that brief time I was conscious though I was unable to recollect more than the merest fraction of the details, that my mind had wandered out over period of my life & into hundreds of experiences & recollecting that I should not have believed them been the case if I had not been on the watch to observe. The process had been a considerable mental effort, and it

F. 19 18

left me full of wonder at the ~~vigorous~~ completeness,  
~~and up-to-date~~ <sup>and up-to-date</sup> ~~processes~~,  
with which the brain ~~absorbs~~ <sup>absorbs</sup> its work of rummaging and  
turning over every article in store of the vast store of ideas that  
it had accumulated. It seemed obvious that ideas are not ~~fully~~  
left ~~dormant~~ <sup>as</sup>, as I had supposed, but that they were continually  
feeling almost or quite unconsciously in the brain & that a vast  
amount of restless activity was continually going on in that organ  
wholly ignored by us, in an ordinary consciousness. I can hardly  
recall <sup>during the</sup> any similar brief period of time & that that in my  
walk down Pale Mall, that had opened <sup>to</sup> a wonderful a  
 vista of unexpected personal unanticipated life ~~events~~, colors, and  
I looked forward to a repetition of the experiment with the greatest  
curiosity. I worked under precisely similar circumstances to repeat  
the walk and gather as well as I could the degree <sup>of</sup> ~~in~~ which the  
speculated ideas were bound up with the ~~object~~ <sup>in</sup> ~~view~~ <sup>of</sup> the ~~day~~  
that excited them. Accordingly I allowed a few days before absolutely  
repeating in the same time to let my mind wander to Pale Mall  
so as to return to it with as fresh a mind as possible and then  
I doth my second walk. The experience <sup>is same again</sup> was as interesting as  
as the other was (...only friend). ~~The~~ my mind ~~wandered~~ as widely  
as before, but I was conscious that it ran along very nearly the  
same tracks as then. & I feel sure that if ~~not~~ the experiment  
had been repeated over so many times, the ideas would have

repeated themselves also, with comparative little variation. & I strongly suspected that although they ranged over all the periods of my life, they did not yet that the number of ideas available for each period of was ~~was~~ <sup>In the novel on the previous occasion</sup> much smaller than I had fancied.

I may remark in passing, that the anecdote,

It now became my object to make a regular investigation <sup>into my own mind in</sup> ~~of~~ of my advocated ideas, and I tried many plans at first in vain. The difficulty as I have already stated is <sup>to</sup> ~~allow~~ <sup>to</sup> ~~gather~~ <sup>gather</sup> ~~gather~~ <sup>the</sup> ~~the~~ mind <sup>will</sup> work with perfect freedom and ease, & then <sup>be judged</sup> ~~the~~ <sup>the</sup> ~~the~~ <sup>expansive</sup> ~~expansive~~ <sup>turn</sup> ~~turn~~ round upon itself & ~~read~~ <sup>read</sup> ~~read~~ <sup>listen</sup> ~~listen~~ <sup>the faint echoes of the</sup> ~~the~~ and reverify the faded and scarce, with traces of the eager that had but occupied it. The method I finally adopted was to obtain a list of words; to sit easily with a stop watch in my left hand & a pen in my right. To cause a word to be suddenly uncovered, to free the stop watch at the same time & after <sup>about</sup> ~~a~~ couple of ideas had come into my head to stop the watch, write them down & note the stopped time. To do this operation <sup>in</sup> ~~with~~ perfect accordance with the required conditions is at first a very difficult task; every precaution has to be taken against needless flurry and the strictest self control has to be exercised in limiting the record to the precise

stage of the idea in which it was present to the mind at the moment of stopping the watch. All this can be perfectly accomplished, but I find it to be a most exhausting task. I think more trying and distasteful than any other I have ever undertaken. It may be best to do it in a random carefree way, but I think of doing it really carefully. My plan was to take a sufficient list of words, to go through them as described, and then to lay the paper by. After the labor of some time, having in the interval revolved often to allow my thoughts to dwell on what I had done, <sup>I supposed</sup> repeat the process. I started with a list of a hundred and ten words in themselves, and I went through my list in the way I have described four times ~~several times~~. At intervals, varying from one to two months, but somewhat gradually, part of my list, which I had been keeping separately, became mixed up with this and other experimental mistakes which required me to draw out several of the words, ~~the last~~, that I finally ~~and~~ employed habitually, was reduced to 75 ~~words~~. The reduction from ~~to~~ <sup>from</sup> 100, I may say, quite self contained & in accordance with <sup>the other</sup> much more extensive <sup>was, in which they</sup> conditions were ~~fully~~ <sup>fully</sup> ~~attempted to~~, careful words that I made ~~independently of~~ at various other times.

I found that the words on my list fell <sup>fairly</sup> into these natural groups, that ought to be separated considered. The first contained such words as 'abbey', 'aborcines', 'abyss' all of which admitted of visual representation or at least like 'acid' appealing <sup>directly</sup> to some other sense. The second group included 'abasement', 'abhorrence', 'acclamation', 'adoration', all of which could be <sup>perfectly</sup> expressed by ~~gesture~~ in pantomime, by deaf & dumb people. And the third group, of no word as 'afternoon', '~~abstract~~' 'ability', 'absence', 'actuality' were of the <sup>most</sup> abstract character. // The imagery with which the words ~~in my list generally~~ were associated seemed to me to admit of being divided into four categories. In the first & the most frequent if all, ~~as~~ I felt myself in a vague sort of way, as both actor and spectator; thus my conception of a 'blow' is ~~as~~ compounded of the exertion of violence or the anxious to give a blow, of the sense of receiving one, and at the same time of seeing one person strike another. In short the puppets that play their parts in the theatre of my mind, are part of myself <sup>I see them</sup> & feel them as if they were my own hands.

Consequently, I would call this sort of mental imagery, 'histrionic', I am not aware that it has been recognised & named before, or I would not venture upon a new nomenclature. It is not to be understood that these images are necessarily vivid, on the contrary I find them to usually exceedingly faint & imperfect, indeed their very imperfection is almost a necessity <sup>plasticity</sup> to variety of thought, because the parts not <sup>in mental view</sup> ~~seen~~ at any moment can be replaced by others of a different shape and so the mental images can shift & change with less abruptness than if would otherwise do. There is more of the diorama effect and less of the table-change of scene. — The second category is purely visual representation. The object stands more or less clear out, as a foreign object, not part of one self. In the third category, I put similar manifestations of the any other sense except pure verbal association, which form my two last categories, for I separate them into mere isolated words, the names of persons or things, and into quotations from prose or verse. These my categories stand

Houstonia; Sense Imagery divided into visual & other Senses, and Verbal divided into names of Persons & things and quotations.

This being premised I proceed to state the results. The average time allowed for consideration was ~~below~~  
~~less than two and a quarter a trifle more than two seconds~~  
and the <sup>average number</sup> number of ideas recited was ~~within less than two~~  
~~as the observed rates~~ <sup>to check more exactly</sup> ~~different~~ 50 ideas would at the observed rate pass through <sup>the</sup> mind in one minute, or 3000 per hour. and I think from ~~is a~~ from other experiments that this is a fair estimate of what ordinary takes place in ~~my mind~~  
~~too, when attention is directed & keen to observe~~  
~~& scrutinize keenly.~~ Whether this is fact or how compared to the average of persons of about my own age (57) I cannot tell, neither dare I trust to recollection of what it may be compared to that in my younger hood. I am <sup>an old man</sup> ~~old~~ & believe ~~that it is~~ <sup>my mind</sup> ~~distinct slower in old people~~ do not like to put faith in mere estimates without some actual counting. <sup>such estimates are very unreliable</sup> Thus a man who has taken wine feels thinks that his actions are singularly swift in response to his will, whereas

actual measurement shows the reverse. The evidence is instructive and worth relating by way of episode. Syner is the authority, who conducted ~~long series~~ of careful experiments on the interval that elapses between a ~~short~~ stimulus, say a slight electric spark, and the movement made by a man in response to it. This interval differs in different persons & to different signals, but in the case of his coadjutor --- the signal between ~~a~~ --- and the response made by him being the pressure of a handle the interval was ---

Syner then proceeded to administer to his colleague "two bottles of Rheinh wine" and again repeated his experiments. The colleague responded with such vigor that Syner was in dread for the safety of his apparatus, & they both believed that the response followed the signal with greater rapidity than in more sober hours. Event was the astonishment of Syner to make <sup>the subsequent</sup> measurements to find that it was decelerated, to be and not quicked by any judgment that precepted <sup>the</sup> ~~decelerating~~ measurements to <sup>be</sup> found that it was decelerated, slower, viz instead of --- I quote this as a warning against placing too much trust on mere estimates of short periods of time and in helping judgment how far the receding <sup>the</sup> of boozish ideas may be trusted.

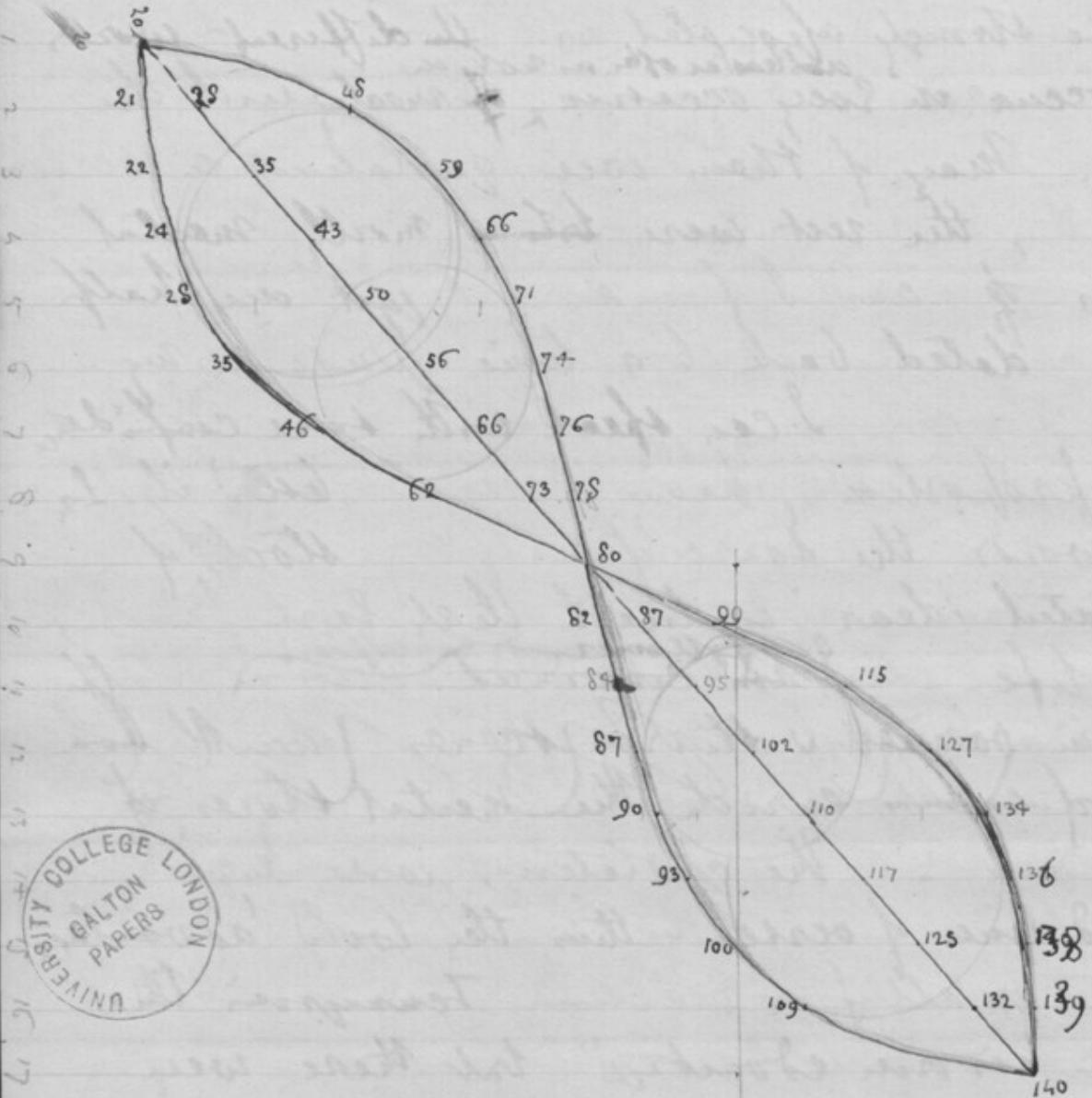
The three thousand ideas which crowd through my brain per hour, ~~can~~ cover a ~~very~~ great deal of ground. If a person tries to write out all his recollections of any ~~far~~ by-gone period of his life, he will be surprised to find how few they are. If he meets a former friend who and for the first time compares notes with him of the same by-gone period, he will be astonished at the chasm in the memory of both each recollecting incidents, ~~and~~ of primary importance that had wholly dropped out of the recollection of the other. So in an autobiography a person tells the tale ~~of~~ of his earlier years by, ~~falling~~ in a few hundred pages, while at the late ~~stage~~ ~~of his life~~ as two <sup>or</sup> ~~of distinct~~ pieces of distinct imagery in a page do not amount to even one thousand incidents. I have often been struck with the small number of incidents in the recollections of explorers of distant countries. Owing to a long connection with the Geographic Society, I have ~~seen~~ in a very large number of instances become famous with their narratives in ~~any~~ stage first the letters received from them while still travelling, then their verbal ~~narrative~~ descriptions in their diaries, then their memoirs

read before the Society, their speeches in public  
and lastly their published works. The  
similarity of all these is very striking (I am  
sure my own performances in these respects  
more than a quarter of a century ago when I  
returned from Explorers in S.W. Africa were at least  
equally as those of others). ~~Whole collection gone~~  
~~to have got into a good~~ out of which they  
to be preserved that ~~have shaped~~ <sup>of</sup> ~~been shaped~~ ~~been~~ ~~got~~ ~~into~~ ~~a good~~ ~~one~~  
comparatively small number of scenes. ~~been~~ ~~therein~~  
and that absolute freedom ~~the~~ ~~that~~  
that we had been expected to survival and  
to be expressed

My 75 words tried 4 times over, that is  
300 words in all produced 505 recorded ideas,  
but of these only 279 <sup>or little more than you left</sup> were different. The rest  
being repetitions; 57 were <sup>not</sup> ~~recorded~~ twice, 31  
three times, and 29 four times.

Then the entries to the word "adoration"  
~~entered~~ are 'The Magi' on all 4 occasions; Histrionic  
sense of lifting up heads, 2 ~~occasions~~ sense of uttering  
a prolonged Oh-h. 1, <sup>and</sup> of heart-praying a. 1.  
It was a subject of great interest to know

what were the characteristics of the ideas that were so strongly associated with the different words as to occur on every occasion & of meeting with the word. Many of them were quotations in verse or prose, the rest were mostly mental pictures of and I found that just one half of them dated back to a time prior to my known college. I can speak with some confidence in this proportion, having carefully tested it. In other words the source of half my stock of associated ideas is due to that early period of my life. ~~I have~~ <sup>I have</sup> ~~convinced~~ <sup>followed</sup> that a youth spent in varied & striking scenes must be a source of great enrichment to the mental stores of more than . The quotations were mostly of good lines of verse - then the word 'advocate' suggested on all four occasions. Tennessee time "for bore his own advocate" but there were some grotesque then the word "adversary" interpreted as the bird is called, was associated on 3 occasions with the phrase from the old quaint story & <sup>new</sup> ~~old~~ prove the ~~fact~~ <sup>recept</sup> of Turkey to the animals that they had a certain



Christian boy to death "to gagging in his wagging  
 a long bill'd fowl. I find the gusts  
 that occurred in the 2 books from Shakespeare, 4 from  
 Terence. I have other <sup>poetical</sup> sources of various merit  
 5 from the Bible & the rest to 7 of various  
 prose phrases or cabd. words. Of the total  
 imagery & of the names of persons & things, I can only  
 say that it is very various, and seems not to admit  
 of classification. They amount <sup>number of things</sup> to 50 (29+51) 87 in all.

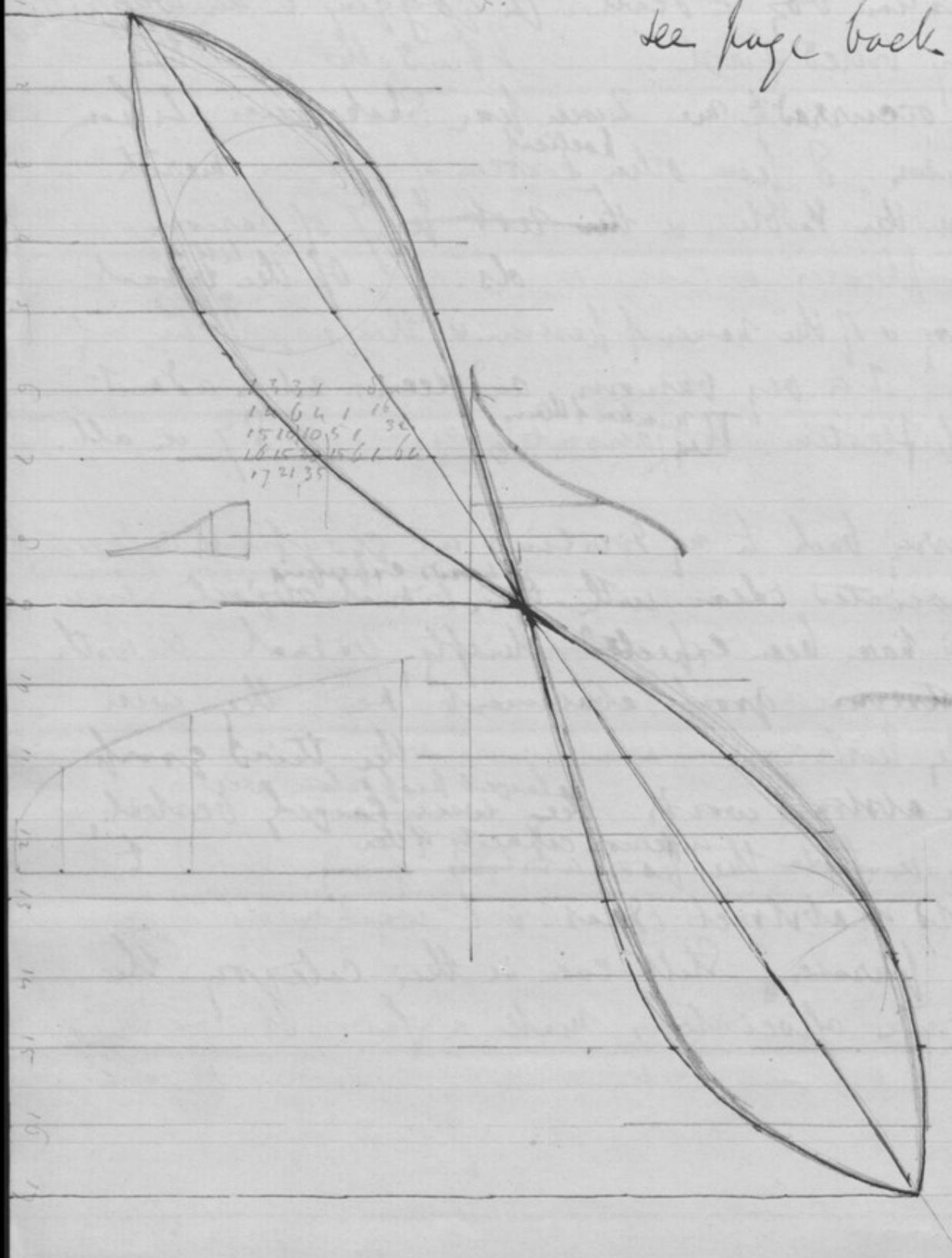
Referring back to my divisions into groups & categories,  
 the associations clear with the <sup>word</sup> object were  
 as we have been expected chiefly verbal & with  
 the ~~histrionic~~ group 'abstraction' for they were  
 chiefly histrionic while with the third group  
 of more abstract words <sup>the largest proportion very</sup> they were ~~mostly~~ verbal,  
 showing in fact the <sup>inferior capacity of the mind to</sup> lay hold of abstract ideas. & to wander off into  
 mere phrases. Still even in this category the  
 histrionic associations make a fair show.

f. 29v

see page back

17 mi.

17.31 0  
12.64 1 16  
15.10 10 51 30  
16.15 0 15.61 60  
17.21 35



~~refer to my lecture. a description of walk at Fall Hall  
Importance of measurement a number.~~

~~Near me are they bands. Each a succession starting from a given word or can  
only direct to get a limited number of ideas, from any one of which it may have a fresh point of departure.  
Theatrical cut - crowds of floating half thoughts, out of which a very  
many always remaining over in stores, if it does not say forgotten.  
Few are selected & practised neglect of thoughts that are too obscure to be carried wholly  
The most attitude of mind that causes us to pick out of crowd of thoughts the those we want. Shorter rabbit - pleasure  
Mind like any office with drawers & pigeon holes - one knows that one knows what is in each drawer  
the plan is to do with~~

~~by fatiguing. the thought close to surface & cannot be snatched at before  
out of sight. - mode of thought hardly describable~~

{ Results at length.

~~Historic at much length.~~

~~Starting into consciousness.~~

~~Need also experimental word class, like speech thought, like thought  
Procedure in presentation due to what. - going on duration of impression.~~

~~A given idea word can directly suggest new and fresh associations - from  
any of these it may result in a word, again a fresh point of departure.~~

~~Can recall in consciousness whole stratum of mental activities that have  
lapsed out of it. By experiment in breathing - heart palpitation.~~

~~But close connection with personal experiences. The best material is old dreams~~

~~Result of my inquiries is the multifariousness & yet the narrow limitations of mental  
work & that so very large a part of it is wholly unconscious.~~

## Results

Measurement v. numbers  
number & obscurity of mental action  
Precedence in presentation

Starting at consciousness

Report of ceiling & descent walls in Hall Hall

Importance of measurement & number

Object seen can only suggest a limited number of ideas but each may become a fresh point of departure, traceable form. Precedence in order of presentation - certain factors (frequency & duration of impression) but must be ordered - first view most thoroughly - familiar object form blunted vision - Memory always rambling over old stores - anything mentioned very apt the whole forgotten - Out of many presentations one is selected - certain attributes of mind that enable us to select what is most wanted. Shorter objects presents - fixing a name & reference out of a page - a friend in a crowd. Mind like an officer with drawn & drawn holes, I know that it knows what is in each. a confused at their outside. Practiced neglect of thoughts that are too obscure to be thoroughly vivified - Starting in consciousness - Can recall to consciousness whole strata of mental actions that have lapsed out of it - My experiments in breathing - head stopping if plan is to - very fatiguing, the thoughts are so elusive & have to be tracked all before out of sight - Modes & forms hardly describable results at length - structure of much length

Much more work will be done if there was left iteration

Result of my inquiries is the multifaceted, & yet the narrow limitation of mental work & that so very large a part of it is wholly unconscious.

f. 34

23x8  
181



15  
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# Psychometria

## Symposium

other books  
are in a pocket  
in my shelves,  
labelled "similar".

These are the original MS books  
containing the words & the ideas  
they gave rise to.

They should be gone through again  
now I have forgotten the words  
but first read my Essay to recall  
the way of working

Secondly open the pocket without  
spectacles in a faint light to  
as to get the arrangements in order  
before beginning

Be most careful not to read the ~~words~~  
before beginning.

July 3/02



F. IV

200 word a day - 3 km of mine shafts

mine de Boismont  
in September 1939

Psychometric Inquiries - 1876



25 E

Galloni

magazine products machine <sup>3</sup> hives <sup>3</sup> paper p. 3

Pen nail needle knife fist book. penny shuttle  
tin kettle zinc

Even paste resin glue mortar solder

15

Granite quartz trap sand gravel clay coal flint chalk  
glass crockery

Salt saltpetre alum carb-soda blue vitriol epsom salts

wool hemp cotton flax hair cocoon

cloth felt paper India rubber

oil turpentine spirit carbolic acid tattoo wax

Bone mother of pearl ivory whalebone wood cork

tea sugar coffee cocoa

cornmeal oats pear



object to object testing

drumming  
rat a tat  
tub a dub  
clatter  
rattle  
racket  
batter  
jingle  
twinkle  
guzzle

410

411

412

bright shimmer  
twinkle  
shimmer  
corrasive  
sparkle?

## Thrills & Trills

f.45

rustle

hiss  
buzz  
whiz  
fizz  
frizzle

410 stridor  
peating  
creak  
clank  
twang  
burp  
beat the teeth in the ice  
gravel upon the law

411 screech  
shriek  
Screech  
break  
grumble  
groan  
moan  
growl  
grunt  
gravel  
snort  
snarl  
harr  
calaveras  
bleat (see bc)

nagging  
boingy  
illarum

1.000  
=  
1728 Cub

91600 m

Brick cul

f. 4v



			f. 55
315	agitation shake quiver stagger quiver quake shiver totter titter flitter flicker	Twitter Flutter to go fit a fit tremor tremble beat palpitate wag waggle tumble	quake writhing wrinkle jerk jolt jar
366			
321	tingle	pant	360 terror horror
324	ruffle fluster perturb		360 awful despair appeal
380	ticke titillate creep fumble grapple		360 shock astonish strike one all of a heap
Sound			electric startle
407	tick beat toll tallow	roll rumble rum trill	



bee buying a fox glade  
in C. Wheatstone auto turning took  
fish & varieties of water

F. 5v

$$\begin{array}{r} 62 \text{ } \cancel{\text{xx}} \\ - 62 \text{ } \cancel{\text{xx}} \\ \hline 0 \end{array}$$
$$\begin{array}{r} 310 \\ 372 \\ \hline 4030 \\ 400 \\ \hline 0 \end{array}$$

1 ~~xx~~ 3 ~~xx~~  
~~142~~ 9 —  
~~142~~ 10 ~~xx~~  
1 mile - 20, eff. 0. ~~xx~~,  
22 ~~xx~~

p. 6

	<i>No. of quatrains</i>	<i>No. of uplifted pebbles</i>	<i>Quan</i>
vale or wales	15	violet - embroidery vale	infidel vale fraternal vale <u>field, &amp; cowes, &amp; flowers</u> vale
valley & valleys	14		valley, fountain fresh sweet flowered hill & vale <u>flower</u> vale
Vast	27	violetaceous <u>vast</u> vacant <u>v</u> of heaven <u>voyaged</u> it <u>vast</u> unreal	v. Typhoeus rage v. infinitude contra v. circumfera. v. profundis

Henry B Wheately  
5 Minford Gardens  
West Kensington Park  
W.

£1.1.—

to hit	bite
raise	raise
throw	throw
link	link
Squeeze	squeezed
Press	press
Lift	lift
Tell	tell
Put	put
walk	walk
Shut	shut
Close	close
Open	open
Give	give
shake	shake
wag	wag
draw	draw
punch	punch
Leave	leave
dread	dread
Cough	cough
brush	brush
Shave	shave
smell	smell
Sniff	sniff
taste	taste
hear	hear
laugh	laugh
Cry	cry
	lose
	hate
	storm
	Sing
	though
	eat
	drink
	swallow
	rehearsal
	coarse
	creep
	to
	wring
	now
	bowl
	even
	second
	saw
	choir
	sheep
	stage
	sleep
	start
	sky
	otherwise
	die
	gravel
	gray
	bark

f.7r



Sight more worn  
Sight with greater bridge  
Sight + 5mm + Slight after  
" " x after

Abhor	bost
abscond	bob
accept	boil
accord	bolt
act	bore
admit	bound
admirie	bow
aid	bryg
aim	bryce
alarm	braid
arise	branch
arm	brand
ask	brawl
awake	bray
Bait	breath
bale	breathe
bang	break
burst	breede
bare	brew
baste	bride
bate	bride
bawl	bride
bear	bring
beat	browze
beok	bruse
beg	brush
bend	build
bid	bryg
bind	butter
bite	Buy
blage	Buzz
bleed	
blend	
bleff	
bligrat	
blend	
block	
blot	
blow	
blunt	
blast	



BY THE WIND GIBBON  
1911

Illusions of Memory

f. 85

(by James Sally)

Cornhill Magazine March 18

Sure "unless my memory has played me false" — "I either saw it or I didn't"

Hazy recollection is not intrusive recollection  
which I may begin to be the starting  
point of it.

The method of the paper is to show how  
memories illustrate by visual illusions

Every complete act of memory involves

1. Something did happen to me

2. It happened in the way I now think

3. It happened when I think it happened.

Each step there is a mnemonic illusion

Illusions of class 1 are compared with  
photographs of light produced by projection of  
class 2 like distorted views (like  
distorted distortion from refraction, mirage,  
class 3 as in Erasmus Darwin's doctrine  
I know not).

It is probable that my children left their  
dream world to a real & substantial  
structure

Dream may leave images behind  
 which correspond to real memories  
 & are mistakes for them. They may  
 also have remote effect. When we  
 think we have seen things before probably  
 it was in a dream (Schoff and  
 Traum (unpublished) by Paul  
 Radestock). Henry Holland says  
 in old age life abbesopiates to the  
 state of a dream — waking unaccustomed  
 to routine by story - to Dickens his  
 characters were as real persons. Habitual  
 novel readers often mistake what they  
 have read for realities. Auto biography  
 are often unconscious narrating scenes  
 in dreamland.

Heredity from transmigration - when a  
 child first sees things it may have  
 a wordsworth ode to transmigrated  
 feelings ... [ducks in sight of water]  
 ancestral experiences

Chap II discusses a barrel of boyhood  
 our recollection are often of interleaved  
 details - oddly selected. - we  
 cannot recall the very day feeling

f. 95

of a bad wood fibre, out a few  
scraps recollection - Can recall pleasure  
some few ~~the points~~. - ~~Beloved~~  
old creek in - a scarf from Cork,  
someone says had and took a horse  
with it, after which we got to think  
the man's dishonest in consequence.

The deterioration of memory &  
time may be likened to the decay of  
an old MS.

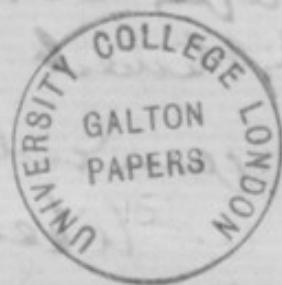
We pass at our best on the lines of  
the present.

Class III. "It seems as yesterday"  
~~This~~ concealment of mind makes ~~decades~~  
wear. A party of old friends ~~comes together~~ talking  
over it.

Public events which lie outside the  
narrower circle of our private life  
seem more nearer than they are -  
the village of the Know is detached,

Moving on consciousness of time  
(in mind)! July 1787 dependent  
on crowd of events (2) thinking of it.  
as of papers.

Our mental development is not  
only a reversion of the old but in  
part a displacement of the old  
by the new.



F 10c

# GAZETTE

UNIVERSITY COLLEGE  
GALTON  
PAPERS

aper and Review. M  
See Thought Read

AY 24, 1884. (16) Price One Penny.

House of Lords might choose to delay the Redistribution Bill. Mr. GREY's amendment on the other hand which simply proposes to suspend the term in question, and to forward such a bill, and perhaps still with these leaders deliberate thereby they have not only ensured another swinging defeat, but have materially diminished their chances of making a good fight when precisely the same issue is once more raised on what, had the Conservatives adopted it in the first instance, would have been very strong ground. Any man may surely be pardoned for associating himself while he honourably can from so suicidal a policy.

*Muscle-Reading (16) Redistribution  
Cumberland  
Patty 884 M*

**MUSCLE-READING BY MR. STUART CUMBERLAND.**

A RECEPTION AT THE "PALL MALL GAZETTE" OFFICE.

MR. STUART CUMBERLAND, after achieving a great success in Vienna and Paris, yesterday gave several very interesting experiments in the presence of a representative company invited to meet him at the office of the *Pall Mall Gazette*. The guests were summoned at twenty-four hours' notice, and many of those who were most particularly invited, Professor Tyndall, Mr. Maskelyne, and Mr. Labouchere among others, were unable, owing to prior engagements, to be present. The editorial sanctum in Northumberland-street was the scene of the experiments, and most of those present were in the requisite condition of healthy scepticism. Almost the only out-and-out believer in the company was Colonel Olcott, of the Theosophical Society, but he took no part in the proceedings beyond that of a passive spectator. As Colonel Olcott wore on his finger a ring which Madame Blavatsky, by her occult power, had caused to grow in the middle of a rosebud, and carried in his pocket a portrait of a seer which the same remarkable woman had willed out of the "astral light" upon a piece of cardboard, Mr. Stuart Cumberland's divinations naturally appeared to him somewhat insignificant. Less favoured spectators found them remarkable enough, for, as was observed by one of our guests, "Mr. Cumberland does all that Mr. Bishop ever professes to do, and makes no fuss about it." Among those present were representatives of American, Continental, London, and provincial press, Professor Ray Lankester, Professor Edmund W. Gosse, Mr. Grant Allen, Dr. Donkin, Mr. and Mrs. Ernest Hart, Madame de Novikoff, Mr. Andrew Carnegie, Mr. Oscar Wilde, Mr. W. Wilde, and several members of the staff.

Before describing the experiments, we may as well give a few extracts from their letters. One eminent scientist maintains that Mr. Cumberland should be blindfolded with pads of cotton wool. Mr. Edmund Gurney, a well-known authority upon all these matters, wrote to say that "this power of delicate muscle-reading is a far commoner faculty than is ordinarily supposed. I have seen friends of my own give decidedly more startling exemplifications of it than those which have stood Mr. Irving Bishop and Mr. Stuart Cumberland in such good stead. The worst of it is that the public go away with the idea that these performances are thought-reading." To true thought-reading, which takes place without contact, and to the reality of which Colonel Olcott bears emphatic testimony, Mr. Stuart Cumberland lays no claim. Mr. Maskelyne wrote to say that, in the absence of trickery and collusion, he relies solely upon muscular indications given by the subject. This thought-reading is not at all difficult with practice. Mr. Labouchere wrote:—"Thought-reading may easily be accounted for. It simply means that with certain persons an indication of their thought may be obtained by—or rather through—the muscular action of their hand. In order, however, to make any use of these indications it is necessary for the 'reader' to be sharp and to fish for indications. What I mean is this. Suppose you were speaking, you would probably use some gesture, and the gesture would precede the word. So when you think, 'this is right,' or 'this is wrong,' just as the words half form themselves in your brain, or on your lips, so does the thought produce muscular contraction in the hand."

Yesterday afternoon, about five o'clock, everything was ready for Mr. Cumberland's experiments. One gentleman had two brand-new £5 notes, fresh from the Bank, and sealed up in an envelope. But these were not used, as Mr. Cumberland became too exhausted during

the hour and a half that the sitting lasted. Lying on a shelf was a bundle of cotton wool with which it was suggested that Mr. Cumberland's sharp ears should be stuffed and his piercing eyes padded. Not only did a bold person make this suggestion, but he actually asked that the subject should be cotton-wooled in the same manner. Mr. Cumberland, however, objected to these suggestions as unnecessary precautions, "although so far as I am concerned I don't think it would make any difference." "Now, I do not profess," said Mr. Cumberland, "to give any illustrations of the supernatural. I simply claim that it is possible to read persons' thoughts under certain conditions, not abstract thoughts, mind you, that is impossible, absolutely impossible. If a person will concentrate his or her mind entirely and earnestly on a given object, I claim that the thought is conveyed to any person of sufficient quickness of perception by the action of the physical system which, I maintain, is the only channel through which thought can possibly be conveyed. Of course there is a percentage of failures. Some subjects are not sufficiently sensitive. Everything depends on the absolute concentration of the subject, and the absolute giving-up of oneself to the conditions of the experiment." Some professors of the art pretend to the power of thought-reading without contact, but that Mr. Cumberland says is quite impossible—a doctrine which Colonel Olcott, who was present, denied *in toto*.

Some thirty ladies and gentlemen composed the audience, all of whom were seated round the room. Mr. Cumberland stood at one end, braced himself up, looked round, and opened the ball by asking Mr. Oscar Wilde to be operated upon. Mr. Wilde, however, shook his head and declared that he was not a good subject. Mr. Cumberland looked round once more, and his eyes fell on the face of the chairman, who was quite ready. "A good subject," said Mr. Cumberland. "Now, Sir, please look round the room, and think of some object, which it is possible to get at. Don't try to resist any attempt to think of it, but surrender yourself entirely, concentrating all your thoughts upon the object." The chairman did as he was bid, and apparently concentrated his thoughts. Mr. Cumberland's eyes having been bandaged with a white silk handkerchief, he took the subject's left hand into his own, put it on his forehead, and darted across the room, going first to a shelf on which were a number of books and papers. He stopped short suddenly, darted back, made another circuit of the room, and halted suddenly before a gentleman standing with his back to the mantel-piece, tore off the bandage, and pointed to the glasses of the well-known London correspondent of the *New York Presse*. "Right," said the subject. "Now, why did I take you to the bookshelves before going to the eyeglasses?" "Well," confessed he, "I must tell you that I had first thought of a Gazetteer which caught my eye. The glasses were a second thought." This was over in a few seconds, thirty, perhaps, and was quite satisfactory. It may be worth noting that Mr. Cumberland always desires his subject to think of the direction or the route to the article thought of rather than the article itself. "I now propose," said Mr. Cumberland, "to discover the seat of pain in one of you. I wonder whether Mr. Ernest Hart would consent to go out of the room, to stick a pin in some part of his body, and to return with a pain manufactured and ready to be discovered." Mr. Hart declared that his mission was to relieve pain and not to produce it, and asked whether it was necessary to stick the pin far in—up to the head, for instance. After a little pleasant trifling, Mr. Carnegie, the famous American millionaire, and proprietor of English newspapers, declared, with a trace of melancholy pleasure in his voice, that he had a pain ready made, and should be only too happy to place it at Mr. Cumberland's disposal. That is, if he could find it. The muscle-reader gladly assented, again resumed the white silk fillet, and stood up to Mr. Carnegie. Mr. Cumberland's hands traversed his subject from top to toe, running nervously down, and eventually stopping at the finger. "The finger it is," said Mr. Carnegie, as he took his seat amid applause. After a short rest, up spoke the gallant Cumberland again. "Professor Ray Lankester, you and I are old friends. Will you be my next subject?" Professor Ray Lankester smiled grimly and said, "Well, you won't be successful with me, I know." "If you make up your mind that I shan't do anything, I admit that my experiment will be useless." "I will give you every chance," said the Professor gaily. Mr. Cumberland left the room, and a pin was fastened in the lapel of Mr. Aaron Watson's coat. Mr. Cumberland was summoned, blindfolded, and took Mr. Ray Lankester's hand, dragging him here, pulling him there, with much vigour. After a couple of minutes he evinced an affection for an easy-chair, which he thought contained the secreted pin. Kneeling down, he probed and poked unavailingly until at last it was evident that the muscular indications of the subject were not sufficiently violent. Mr. Oscar Wilde, who had seen where the pin was hidden, then took Professor Ray Lankester's place, and Mr. Cumberland struck a bee-line and had the pin in no time at all. "Professor Ray Lankester's individuality is too great," said Mr. Cumberland, resting after his labour, "If I don't do a thing immediately I can't do it at all." Mr. Cumberland's pulse was not beating very fast, he admitted. At one sitting in Vienna it reached 175 beats in the minute, when he fainted. A lady, who was the next subject for Mr. Cumberland's experiment, was asked to think of some object in the room, and to give it mentally to the audience. The thought-reader and the lady went round the circle deliberately and sedately. Suddenly they stopped. Mr. Cumberland's hand was stretched forth, he seized a little vase of rhododendrons from a number of others. "Right," said his subject. "Now you

F. 115

Stuart Cumberland Thought reading  
Nineteenth Century, Dec 1886. T (See Muscle Reading)

1. 884 ... the general principle of mind acting  
on body, producing muscular tensions in the  
direction of the locality in which the thoughts are  
concentrated

879. What is bred in the mind will come  
out in the body

876 ... under the combined influence of fear & expectation  
very few men would be able to physically retain  
their secret

873. The Emperor of Germany in his firmness - perplexed  
of thought reads amongst my very best subjects

877. I cannot to day find an object thought of  
with any greater certainty than I did on my, as  
it were speaking occasion. The execution is of course  
speedier, but my improvement lies in going beyond trifling  
tests of their character. It is astonishing how when  
the faculty is once with me, the power to thought-read  
develops by practice.

Thought Reading  
See Muscle Reading

17



"THOUGHT READING."

To pretend to read one's thoughts is an accomplished feat, that the person claiming to possess it can hardly conceive an insurmountable doubt on the credibility of his claim. Accordingly, a number of distinguished scientists were invited to a private house in Bedford-square last night, to witness some of Mr. W. J. Bishop's powers in that direction, the frame of mind in which they accepted the invitation may be described as that of sceptical curiosity. Indeed, any other disposition towards the "prodigy" of the moment, a psychological phenomenon, would have been impossible for they were invited simply to test Mr. Bishop's powers, and, if possible, rid him of explaining what he does as yet only partially explicable. The Company was in every respect a representative one. Among those present were the Right Hon. Dr. Lytton Playfair, Sir John Lubbock, Mr. Francis Galton, Mr. Maurice Conway, Dr. Andrew Clark, Dr. White, Prof. Tait, Prof. Huxley, Prof. Herbert Spencer, Prof. E. L. Lancaster, Professor Charlton Bastian, Professor Cross Robertson, Mr. Ernest Just, Dr. Rydges, Dr. Falloppiani, the Austro-Hungarian Consul-General, and a number of other gentlemen of more or less eminence. Mr. Bishop, who was dressed in a dark suit, was seated in a chair, facing the room, and who could not be of any other interest, save a scientific one, in the experiment of which he is the exponent. The first manifestation of his power was tried on his own countenance; Mr. Maurice Conway. It is essential to the success of the experiment that the subject of it should have a vivid picture of some object or locality in his mind, and not really recollect the name that should be given to it. Mr. Bishop, pretences to have a pictorial, not a sound impression, of what he is about. Accordingly, after striking down the book of Mr. Conway's left hand, the "medium"—if he will allow us to so term him for want of a better name—left the room under strict surveillance. During his absence Mr. Conway hid an object. This done, Mr. Bishop, who had been seated in a chair, facing the room again taking Mr. Conway's left hand, he passed the back of it to his brow, keeping it firmly there, meanwhile dragging the sleeve of it wildly around the room in search of the hidden object. Mr. Bishop seemed sick in great excitement, his "shaking" more violent than ever. Shaking pass over, and, under apparently the same conditions, he approached the place where the object had been first hid, and laid his finger within an inch of the spot. A little later he rattled out the object itself from its hiding place. Naturally such manifestations assume extraordinary, and sometimes nearly approaching sympathetic, curiosities. Professor B. Lubbock made an experiment. "Think of some real or fancied pain, and form a vivid unconscious mental picture of the spot where the pain is, and I will fix on it." Such were the instructions. Again, going through the hand-shaking preliminary, and passing the back of the Professor's left hand to his forehead, Mr. Bishop rattled over his powers, and again dragging the sleeve of the Professor's chair. He was right; the pain was at just twelve inches. This experiment was again tried, but failed, like other more or less complete failures which occurred, being attributed to the person experimented on not having kept his mind fixed on the object he "read," or, in other words, not having formed a sufficiently clear and mental picture of it, or of "the locality." Dr. Falloppiani also made an attempt at this experiment. Taking the medium in front of a row of cards, each with a letter of the alphabet on it, the right hand, gentleman thought of a word, which the medium, blindfolded, spelt out correctly. It was "Speaker." However, this subsequently he failed in reading this kind of "thought," and it may be added, that the second parties to the experiments would not be inclined to do so. It is not noteworthy of course. It is a sufficient desire that the other experiments either successful or attempted. They all depended seemingly on the hand contact with the medium's brow, and were conducted under the same conditions as those which we have noticed. It is only fair to Mr. Bishop, to say that though we witnessed no "thought reading" in any way deserved the name of "thought reading," that he claims to be able to tell what the person he faces is at instant thinking of. But the experiments last night were decidedly more of the nature of "muscle reading" than of "thought reading." Some of them were sufficiently interesting, though Mr. Bishop's success seems seriously about the facts of those who earlier in the evening were qualified to consider that a new force had been discovered. Indeed, the general impression on the highly-qualified audience was that Mr. Bishop's "successes" might be explained without having recourse to any such device as a fresh law of nature at present control in himself.

To characterize these as partakes of fraud would, we think, be grossly unfair, while to hint at collusion leaves much to be desired. We all know well that Mr. Bishop is not a professional, prettily known, and as what he holds in store, may be best known to himself for what he is able to do. Scepticism will do justice, and, indeed, he is, we understand, one of the strongest opponents of that latest doctrine of knowledge. The physiologists present did not, however, all share this charitable belief, and the majority considered that the clue to the curious power especially given by the young American is to be found in the familiar phenomena of unconscious muscular excitability. To lay a dozen cards on the table and then to call which one a particular person is thinking of is a common "avocation party" trick. It is simply explained on the well-known fact that we make how the person affects not to regard our self, while greater care is taken so far as he will let us believe he is moved by a desire to "show off" looking more closely at the one he has "thought" of than the others. In the same way, an excitable person, when approaching the place where an object is hid, or the letters of the alphabet to be spelt out, will unconsciously and unwillingly display nervous excitement, which will communicate itself to the medium, whose hand pressed to the medium's forehead, and thus he gives the name of a card to the fact for which he is responsible. This is, of course, merely a theory, and is readily disbelieved by Mr. Bishop. It is, however, curious that Mr. Bishop's failures were with uncharitable persons like Presidents Harrison and Cross-Siberians, and his successes with those more nervous temperaments, like Dr. Playfair and Mr. Conway. The art, or power, or whatever it may be, is not yet fully understood, and requires a great deal of consideration, and even the failures showed that it was not a mere trick but the outcome of certain natural laws, explosive or inexplicable. It is, however, sincerely to be trusted that the new science will not become generally practical, or be improved to an inconveniency extent. When men can, like the Geomancers of olden time, foretell the future, the plain and simple announcement of this will be impossible. Publicity will be a useless accomplishment, and disclosure most assuredly become one of the last resort of statesmen when "thought reading" is the death of the ancient art of lying.

