Draft of Rede Lecture

Publication/Creation

1884

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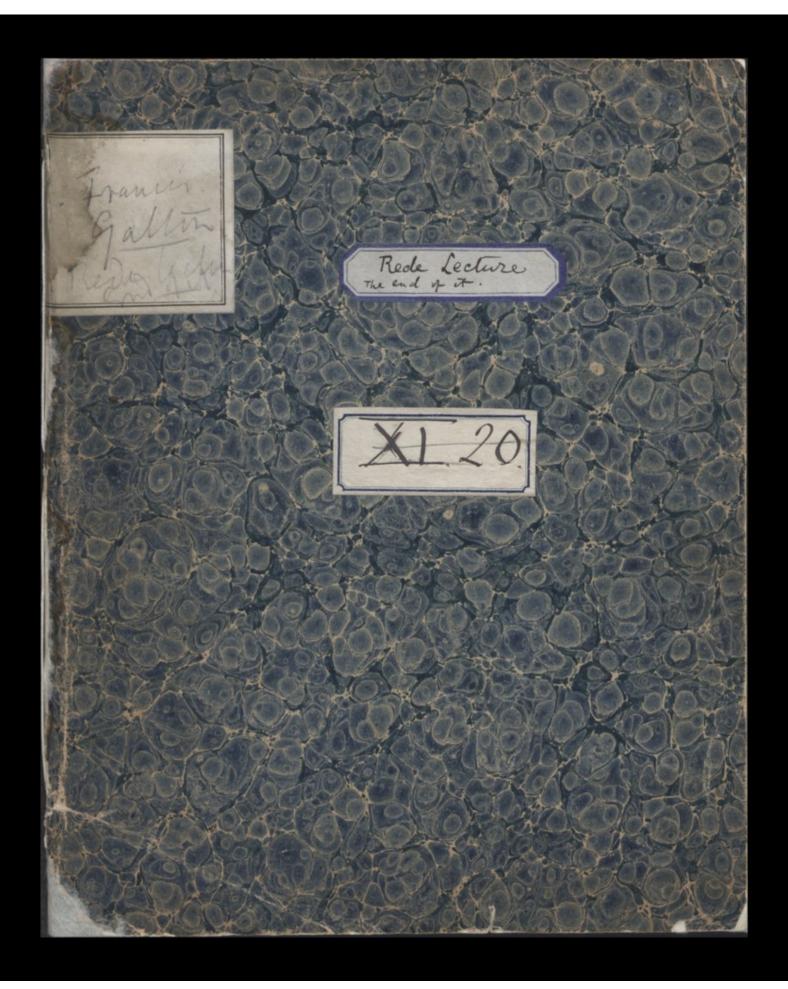
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I now twen to the very opposite extreme of authoropenday, that is to its simpliest, best known, and longest established past.

I cannot explain what I rulan, better they have the stratument of an Experient at the party of the in working order in a few days. I suggested it to the Council who willingle, adopted the interpretation who willingle, adopted the instruments and I gave made arranged the instruments and plue methods of wing them. It is pealled the authors forwelie Laboralory, to be a should be a suffered to a start of the suffered and all the suffered aboratory, to be a should be a suffered to a suffered the aboratory.

Where

where the whoch a person may be meatured in the following particulars

Eye sight, color sense, hearing, breathing Capeate,

Strength, swittness of blow, Height, shound arms, weight. It is to be worked in a self inphorting basis, and it really seems that the properties by judicious arrangements to supply all these facts on a card, and to been a copy of them, for the very small sum of three peace.

(like there,

The value of the sing ple measurements)

the water facility with which they show whether

the physical development of the child or youth is

proceeding normally. They draw alteration

it hidden faults in his rearing which

would detract from the fature efficiency as

the man, and which if delected early
have a better chance of being palliated or

everime. Have there not been hundreds
of themsands of cares of eyes ight professed beyond
repair, of lop sided growth and stanted

chest capacity, amon which if manifested by

attended to in time, and remedied.?

The necessity of periodical measurement is

thoroughly recognised by those who have

studied the suice of Health, but it has not

thoroughly recognised by those who have studied the suice of Health, but it has not yet obtained that hold of popular opinion which it deserves, and which at some future time jundoubtidly attain

unstituted a system of physical relaturements, and is turning them to good account, going further in this direction than the public

olumin in their Country is heobably prepared for. Thus in the Johns Hopkins university, a new department has been established, called that of Physical Education and Hygiene, and a notice was ifmed last Lanuary, which I quote from its University Circular, that "matriculate Hadeats will hereafter be required, in order to secure the degree of Bachelor of Arts, to take the course in Physical Culture" I am indebled for much information on their subject to I Hartwell, who bretides over that measured but they bresent themselves of their and are so moroughly examined that the schedule on which the retally are entered, has some 50 separate headings and corresponding blank spaces, all of which are felled up. Irregularities of muscular development are especially noted,

sheeral form of gymnastic exercise. At intervals the recatarement, are refealed and the gain or loss in Each particular in recorded. [I should add, that numbers and not names are entired in the chief record for the take of privacy) So fai as I can indee from the numerous papers that have reached me, their elaborate system is very effective, it already popular and in growing in popularity. American experience than how how kindly students may take to a system even of minute recepturement.

The rate

The rate of the annual mirrente of stature during youth, together with the records of weight, serve as an easy tests of normal development. I will refer more especially to weight, because I happen of examining a series Tage weight ages the close of life. We are as get to deficient in records of the weighings of the same individual during many sucception rear, that I believe I am almost the first herein who has enjoyed such an opportunity. The particular series I speak of bad an additional interest, tum its including a large member of the best known men in English Society during the past hundred glass. The history of the collection is a curious and instruction one, and as follows In a well-known

and fashionably trequented shop in 51 James Street, there hang magnificent beam scales, one to the historice of the shop and another fitted with an arm -- chair to the use of the customers. also, in a shelf at their side stand a row of ledgers, well indexed, ready to receive entries.

The opportunity of being weighed was usually irresistable to those who entered the shop. Statermen, generals, diplomatith, men of fashin daily sat in the scales, and the results were duly booked, and the records still are there. I mention these delaits to thow how little averte people are from being locited and meatured. On the contrary they like it. Nothing interests them more than particular about themselves. The plainest people look at their own faces in the glass without displeatable.

The examination I made into the age-weights was confined to those of the some baronels, whose ages at the time of the weighings were easily found in the Peerage — The

Tenthe gave an excellent meeture of the hurschiever in fluence of the form of dicial life towards the end of the last century, when the phrase "an drunk as a lord" was in use and true asto fact. The oscillations in weight from year to year were more abouft and large, then then more and the times of life when such began to grow heavy and when they began to shrink were earlier than at present.

Anthropmetric vecords are treated statiscally to descover the effecting of the nation as a whole, and in its various parts, and the direction

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direction in which it is changing, whether for the beller or worke. We are still unable to speak with even moderate precision about there things. The authorimetive Committee of the British afrociation found great difficulty in collectioning data and their collection is sadly imperfect. There is great need for regular and systematic registration applyment measurements in a form available for statistical interiory to there the use of preserving even the minor data, I will dwell for a mornest in that of the colour of the hair and eyes, which mightbe thought at first highly to have us obvious bearing on the general efficiency of the water Their is for from beig the case. The British nation is hartly a blead, partly a mosaic I very different types. The short, black-haired, ancient British race

uniter unperfectly with the latt, fair-- havred Danish or Scandinavian. Their union resembles what druggists call an emulsion, that is a mixture of oil and at the time well shaken up that they form the combination is not durable. Leave the emultion aline and after a white it will begint separate into its comporcent Elements. Types are stable, but the former of their rungvel offspring are not and whenever the external features of the old types reappear in Something of their original hurity we may reasonably suppore that their inwood churacterities are likely to be present also. Whether it be as a race peculiarit dens in america immunities from & susceptibilities

to disease. This is thoun by the

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medical and other statistics published by the american was office in 1875 under of the war of the rebellion have wall citizens of the United States between the ages of 20 and 45, grand age, were med ically inspected withingreal minuteness t ascertain how many of them were fit for military service. about one quarter of incapacitated them are recorded in ?? Batters book in connection with other hasticulars, including the color of the hair. An analysis of beliveen three hundred and thirty & three hundred and forthy thousand cakes of invalidion haired wien who were unfit to tervice was larger than that of the dark haired wen. The light haired wen

every form of distense except chronice rheumatisin which alone fixed itself in preference when the dark-haired.

It follows therefore that even the color of the hair is a higher subject for authorhometric record; hund more may be feel assured that other obviously embortant personal data deserve meanue.

— went and registration.

danshaired in the united States

The value

The value of the simpler meaturements them so so triffing, and the facility of acceptance registering them in any permanent institution being to obvious, it seems strange that they should be neglected at any school is university. I benture to inggest the establishment of at least a plain authropometire Laboratory here at Cambridge. I Should consider it me of the best worker of my life if the remarks ? have the brivilege of addrepi's hubliche to their distinguished audience, were to lead to the introduction of a new requirement in the University, that

of a systematic but simple measurement of every undergraduate, in his matrica-- latin and again before taking his degree. I believe that the intro--duction of so the personal a mobelly would be in reality a very important they not only to its immediate object but also because the schools would gradually follow suit, and the growth and develop. - ment of every men ber of the educated classes would be phystematically watched Moreover each herson who had been at school and at the University would know where to collect data for his own life - history, whenever he detired their them together. It. about to but we that has been uttered quite as emphatically by not a few of

the word eminent members of the heedreal histolien, that one of the Event desiderata of the time is a habit of keeping Continuous records of growth, health and disease: The step 1 advocated world be a moves entirely in that direction. Each life man le viscoed as if it were a separativey--perment, conducted on a system of trial und cerror, and costly in time , win effort, and in pain. The cost of the experiment nistlevasted to if provacebrate records fare Kepty whence the defines wit ist rable to teach, may thereafter bande copleted be deciphered

Lower Fraster Lower Flower

GALTON LOND PAPERS NON MOO

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