of Miss Loring, of Boston. Already there are four Japanese cadets at the Annapolis Naval Academy.

Quetelet's statistics of crime in France and England show that, in the former country, out of one hundred criminals, sixty-one could not read or write, twenty-seven could read imperfectly, and only twelve could read and write well. In England, thirty-six could not read at all, sixty-one could read and write imperfectly, and only tbree could red and write well.

Father Secchi communicates to Les Mondes the particulars of a violent solar explosion on the evening of the 7th of July. Ti,e internal movements of the incandescent vapors were so intense that the luminous clouds were seen to change form rapidly, their height being six times greater than the earth's diameter. Tbe eruption continued about two hours. On the same date, an aurora borealis was seen at Madrid and in many other parts of Europe, and the magnetic perturbations were very violent at all the observatopies.

Brain-work costs more food than hand-work. According to careful estimates and analyses of the excretions, three hours of tard sutdy wear out the body more than a whole day of severe physical labor. Another evidence of the cost of brain-work is obtained from the fact that, though the brain is only one-fortieth the weign t of the body, it receives about one-fint of all the blood sent by the beart into the system. Brain-workers therefore require a more liberal supply of food, and richer food, than manual laborers.
On the 8th of February, 1875, the University of Leyden will celebrate its three hundretu year. On that day Mr. Martinus Nythoff, bookseller, of the Hague, will publish the roll of members of the University, from its foundation to the present time. The book will form a handsome double-columned quarto, and will be accompanied by an alphabetical idex of names.

Scolland.-Efforts arelbeing made for the promotion of science and art instruction in Scotland. The local papers report a series of meetings in the large towns, which appear to bave been very successful. Mr. Buckmaster has forcibly pointed out what is required in the education of working men and their employers; instead of teaching boys abstractions and metapbysical ideas, as if they were all to be parishministers, they must be taught things. A knowledge of the laws and properties of matters, by which the eartb is subjugated to our use, is the proper education of men who bave to work on matter. Several local committees have been appointed to co-operate with the Science and Art Department in promoting scientific instruction in Scotland.
A work of much interest to teachers and advanced students is Professor Hallowell's " Geometrical Analysis." The leading features of this book are, the construction and solution of various geometrical problems from analysis, by geometry, algebra, and the differential calculus; the geometrical construction of algebraic equations; and a mode of constructing curves of the higher order by means of points. Each problem is lirst analysed, then constructed, demonstrated, and the method of calculation by plane trigonometry clearly indicated. The value of the system here presented and rendered available for both teachers and pupils can scarcely be overestimated, especially when we consider the admirable mental discipline which results from the use of the analytic metbod in any scientific study.
A Vienna contemporary speaks of an encouraging phenomenon in the promotion of practical education. The Society of Stenography in Austria bas opened a competition in shorthand-writing to the pupils of the middle-class schools in Vienna. It appears from this and many others matters that in Austria as well as in the German Empire time is looked upon as money. In Belgium also the practice of shorthand-writing bas of late been strongly recommended as a useful branch to be added to the curriculum of scholastic instruction.
According to the census of 1870, the total number of scbools in the United States was 141,629 were males, and 127,713 females. The total number of pupils was $7,209,938,3,621,996$ being male, and $3,587,942$ female. The total income of all the schools was $\$ 96,404,-$ 726 , of which $\$ 3,663,785$ came from endowments, $\$ 61,746,039$ from taxation, and $\$ 29,992,902$ from all other sources, including tuition. The total income reported is nearly three times that for 1860, and nearly six times that for 1870 . It is considered quite impossible that there should bave been any such increase; and the apparent augmentation is, without doubt, referable to a failure on the part of the former census officials to secure complete returns. Of the total number of schools reported, the public schools were 127,059, classical, professional, and tecbnical, 2545, and others, 14,024. The total number of teachers in the public schools was 183,198; and in the classical, professional, and tecbnical, 12,767. The number of pupils in the latter class was 245,190 , and in the public schools, $6,228,069$.
The London School Board Chronicle, speaking of Mr. Walford's "Juvenal," the most recently issued volume of that entertaining series, " Ancient Classics for English Readers," compares it to Mr, Ti eodore Martin's " charming Horace," of the same collection, and adds, "We like the divisions inte which Mr, Walford has arranged
the treatment of his difficult subject, wherein be discusses the interesting points in the life of Juvenal, compares Horace and nal as satirists, pictures in colors neither too strong nor too
the moral phenomena of imperial Rome as it appeared in the moral pbenomena of imperial Rome as it appeared in nal's time, as well as its philosophy and religion (if su
tition of the grossest and atheism of the most pronounced racter may so be called) ; and delights us with a revie the state of literature and the condition of the literali in the rial city." In concluding its criticism, the Chronicle remarks, cannot part from Mr. Walford's little book without acknowled that we have learned much from its pages, aud bave been charmed by a work that will add considerably to the reputation yed one of the most mature and most accomplished Latin scholars among us.'
The London School Board is still actively engaged in proc the dimensions of existing school-rooms, and bas just sent out to schools recently examined by the inspectorate and judged cient, requesting the managers to improve the teaching such schools, and so enable them to keep down te rates. only been the case where the buildings have been judged stl for school purposes.
Three prizes have been placed by the Joiners' Company at disfosal of the Birkbeck Literary and Scientific Institution f encouragement of technical education. The same company pleased last year to present two prizes for a similar purpose. its foundation, in 1823, the Birkbeck Institution has continu impart instruction in the arts and sciences. In so doing carried out the design of its benevolent foumder, Dr Birkbeck, efforts in this respect will be remembered by many. The bopes that many other of the City companies will be led to foll the steps of the Joiners' Company by instituting prizes for extension of technical education.
The principle that it is lawful to learn from the enemy seen have bcen adopted in France. Compulsory drill for schoolboys been introduced, and the enemy's language is to be taught af Polytechnic Institutions and the military school of St. Cyr. Fr art the ist January, 1873, lectures at both establishment in German to be given.

Drawing has been adopted as a branch of instruction in all departments of the Public Schools of Ptiladelphia, except Primary, and in this department it will be taught as a matter
course. This is considered by the friends of education in that city very gratifying step in advance.

Of Schoolmasters now Bishops.-Of t'e famous men of Engla now living, who were formerly schoolmasters, are the Archbisho Canterbury, wbo was master of Rugby, the Bishop of London, was master of Islington School, and the Bisiop of Lincoln, who master of Harrow.

Don. In the middle ages the professors of the University of $O X$ were called "Dominus," or "Don." In the case of the le professor whose name is known to scholars as "Duns Scotus, title was of course conferred, and the opprobious name, came into use somewhat on the lucus a non lucendo Hence the common term " dunce."

Oxford.-The nobleman's gown, and the gold "tuft " 0 velvet cap which was formerly worn by peers' sons at Oxford, a thing of the past; the "gentleman commoner's" silk gown is all but extinct in the Uuiversity, and quite extinct at Church, where it formerly prevailed most extensively. sign of the increasing " liberty, equality, and fraternity mark the present age?
An experiment in Saxony.-A novel and most interesting ment in the field of elementary instruction bas just been upon in Saxony. Hitherto, as everywhere else, so in that sme highly-developed kingdom, the youth of the lower orders, upon apprenticed to a trade, bave been left at liberty to forget the they have learned at school. Attendance at Sunday schoo evening instruction provided by the State and charitable soc was perfectly optional. By a law just passed this liberty is abr and compulsory attendance at evening schools exacted for a of three years. This is the first time, if we are not mistaken, annals of the world, that an attempt has been made by a extend the education of the humblest classes beyond the rudiments, and after they bave entered upon the business Saxony, already the best taught portion of Germany, will by law be more than ever in advance of her sister States.

Schooldays and Festivals in Swilzerland.-Tte festivals and holir days of a Switzer are connected with his life at school. Eac!: is made the pretext for a feast. On going to school there is a on leaving school there is a feast; at every stage of his a there is a feast, There is a vacation feast, assembling least;
a new teacher comes there is a feast, and when a leacber

