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 three could read and write well.

Father Secchi communicates to Les Mondes the particulars of a violent solar explosion on the evening of the 7th of July. 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. The eruption being six times greater than the earth's diameter. continued about two hours. On the same date, an aurora borealis among us. was seen at Madrid and in many other parts of Europe, and the magnetic perturbations were very violent at all the observatories.

Brain-work costs more food than hand-work. According to careful estimates and analyses of the excretions, three hours of hard 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 weight of the body, it receives about one-fifth of all the blood sent by the heart 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 hundreth year. On that day Mr. Martinus Nyhoff, 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.

Scotland.—Efforts are being 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 have 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 metaphysical 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 earth is subjugated to our use, is the proper education of men who baye to work on matter. Several local committees have been appointed to co-operate with the Science and Art Department in promoting scientific instruction in

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 first 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 method in any scientific study.

A Vienna contemporary speaks of an encouraging phenomenon in the promotion of practical education. The Society of Stenography in Austria has 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 has 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 schools in According to the census of 1870, the total number of schools 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 results in the school of the source of the school of the sc nearly six times that for 1870. It is considered quite impossible that there should have 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. the former census officials to secure complete returns. Of the total number of schools reported, the public schools were 127,059, classical, professional, and technical, 2545, and others, 14,024. The total number of teachers in the public schools was 183,198; and in the classical, professional, and technical, 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, Tleodore Martin's "charming Horace," of the same collection, and adds. "We like the divisions into which Mr. Walford has arranged Of the total

the treatment of his difficult subject, wherein he discusses the missing principle of the contract of the cont 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 nal's time, as well as its philosophy and religion (if superation of the grossest and atheism of the most pronounced parter may so be called); and delights us with a review the state of literature and the condition of the literati in the rial city." In concluding its criticism, the Chronicle remarks, cannot part from Mr. Walford's little book without an unadging the control of the literation of the litera cannot part from Mr. Walford's little book without acknowledging that we have learned much from its pages, and have been much charmed by a work that will add charmed by a work that will add considerably to the reputation one of the met nature and one of the most mature and most accomplished Latin scholars among us "

The London School Board is still actively engaged in procuring the dimensions of existing school-rooms, and has just sent out for to schools recently examined by the inspectorate and judged inclient, requesting the management to improve the inspectorate and judged and of the management of t cient, requesting the managers to improve the teaching power such schools, and so enable them to keep down the rates. This only been the case where the back where the case where the back where the back where the case where the back where the case where the back where the case where the back only been the case where the buildings have been judged suitable for school purposes

for school purposes.

Three prizes have been placed by the Joiners' Company at the disposal of the Birkbeck Literary and Scientific Institution for the 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 continued in the base of the base impart instruction in the arts and sciences. In so doing it has carried out the design of its benevolent founder, Dr Birkbeck, whose efforts in this respect will be remembered by The council bopes that many other of the City companies will be led to follow 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 seems be have been adopted in France. Compulsory drill for schoolboys the been introduced, and the enemy's language is to be taught at produced the school of the school o Polytechnic Institutions and the military school of St. Cyr. the 1st January, 1873, lectures at both establishment in German to be given

to be given.

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

Of Schoolmasters now Bishops.—Of the famous men of England now living, who were formerly schoolmasters, are the Archbishop of Canterbury, who was master of Rugby, the Bishop of London, was master of Islington School and the Bishop of London, was master of Islington School, and the Bishop of Lincoln, who master of Harrow

Don. In the middle ages the professors of the University of Oxford were called "Dominus," or "Don." In the case of the learned professor whose name is known to called a real called a r master of Harrow. professor whose name is known to scholars as "Duns Scotus, title was of course conferred, and the opprobious name, "dured, and the opprobious name, "dured, and the opprobious name," came into use somewhat on the lucus a non lucendo principle. Hence the common term "dunce."

Oxford.—The nobleman's gown, and the gold "tuft" on the velvet cap which was formerly worn by peers' sons at Oxford, is now a thing of the past; the "gentleman commoner's" silk gown, at labut extinct in the University, and quite extinct at this church, where it formerly prevailed most extensively. Is sign of the increasing "liberty, equality, and fraternity" which mark the present age? mark the present age?

An experiment in Saxony.—A novel and most interesting experiment in the field of elementary instruction has just been resolved upon in Saxony. Hitherto, as everywhere else, so in that small hit highly-developed kingdom, the youth of the lower orders, upon being apprenticed to a trade, have been left at liberty to forget the little apprenticed to a trade, bave been left at liberty to forget the little evening instruction provided by the State and charitable societies evening instruction provided by the State and charitable societies was perfectly optional. By a law just passed this liberty is abridged, and compulsory attendance at evening schools exacted for a perfect of three years. This is the first time, if we are not mistaken, in to annals of the world, that an attempt has been made by a State extend the education of the humblest classes beyond the made that the province of the province of Germany, will by the new law be more than ever in advance of the state of the state of the new law be more than ever in advance of the state of the societies. Saxony, already the best taught portion of Germany, will by the new law be more than ever in advance of her sixty. law be moré than ever in advance of her sister States.

Schooldays and Festivals in Switzerland.—The festivals and holicys of a Switzer are connected with respect to the same states. days of a Switzer are connected with his life at school. Each chapter is made the pretext for a feast is made the pretext for a feast. On going to school there is a feast on leaving school there is a feast. on leaving school there is a feast; at every stage of his advance there is a feast. There is a reast. there is a feast. There is a vacation feast, assembling feast; and when a new teacher comes there is a vacation feast, assembling feast; leaves adds, "We like the divisions into which Mr. Walford has arranged a new teacher comes there is a feast, assembling feast; leaves