# Hormal Keview.

VOL. VII. No. 6 CALIFORNIA, PA., FEBRUARY, 1892.

50 CENTS A YEAR.

Entered as second-class matter.

The Juniors are taking Kindergarten work under Miss Patten.

Miss Patten has had a pleasant visit of some length from her sister.

Miss Lottie Krissinger is teaching a primary school at Stoystown, Pa.

Miss Ray Whitsett, class of '91, has been elected to a position in the schools of Leechburg, Pa.

Mr. George Parker, '88, now of Pittsburg, has passed the preliminary examination for studying law, in Allegheny county.

Mr. Vincent Rader, '87, W. F. Peairs, '88, and Arthur O. McKinley, a recent student, are studying medicine in Baltimore, Md.

Trustee L. W. Morgan and family, since the fire, are living at the Normal. After April 1st they will occupy a house on College Avenue.

The friends of Mrs. Maggie Jennings Wolfe, of the class of '81. will sympathize with her in the loss of her husband, who died on Jannary 8th.

Miss Anna Buffington has resigned her position in the schools of Homestead. It is rumored that she will shortly be married to a gentleman in Brownsville.

Among those taking part in an institute at Leisenring, Jan. 30th, were O. P. Moser, O. A. Anderson, Olive B. Macurdy, Wm. B. McCullough and Geo. B. Jeffries.

Masontown, parents of Misses Chat Thus far they have possessed a home."

'90, celebrated their golden wedding, Saturday, Feb. 6th.

Mr. H. A. Hull, son of Prof. W. N. Hull, a former teacher in the S. W. S. N. S., but now of the Oregon Agricultural college, is superintendent of the schools of Shelton, Nebraska.

Mr. Gibson Binns, one of our State trustees, has our sympathy in the loss of his wife, who died of the grippe on January 18th. Mr. Binns has himself been seriously ill with the same complaint.

The Senior class has elected as officers, Mr. C. E. Carter, president; Miss Lyda Peterson, vicepresident; Miss Margaret Hester, secretary, and Miss Flora Horne, treasurer.

Prof. Meese has had a fortnight's visit from his wife and two child-At the first of April he will move his family to town and will occupy one of the new houses on College Avenue.

The names of Carrie McGinnis, Preston Horn, L. C. Crile, James Hathaway and R. M. Day, graduates or students of the Normal, appear as taking part in an institute at Lone Pine, Jan 16th.

Miss Sigmiller, instructor in Form and Drawing in the schools of Pittsburgh, was a visitor at the Normal a short time ago. Her illustrated talk at morning chapel was entertaining and instructive.

The Seniors are now delivering Mr. and Mrs. John Sterling, of their original orations at chapel.

and Belle Sterling, of the class of high degree of merit, and we doubt not the same high standard will be kept up through the class.

> Hor. Wm. Baker, of the Sixth Congressional district of Kansas, was a visitor at morning chapel recently. He gave us an interesting talk on the doctrines of the People's party. Mr. Baker was at one time a resident of California, and has relatives here.

> The Scripture lessons at chapel this term have been from the book of Job. Dr. Noss, by his explanations and comments, makes them very interesting. When the passage, "I would not live alway" was reached, one morning, an octette of students came to the platform and sang the familiar hymn beginning with those lines.

> The many students who have roomed in "College House," opposite the Normal School buildings, will be sorry to hear of its destruction by fire, and will sympathize with Mr. L. W. Morgan, who occupied the house at the time, in the loss of all his household goods.

> The Masontown correspondent of the Uniontown Genius thus speaks of Miss Chat Sterling, of the class of '90: "She has become one of Fayette county's most reliable When not teaching she teachers. attended school at Jefferson, California, and other institutions of merit. She has always been awarded a school near home, and while good teachers may necessarily have to go away from home to get a school, it is no less evidence that her services are appreciated at

### EDITORIAL,

Have you paid up your subscription to this journal for 1892? you have, we extend our thanks, if you have not, we wait—and hope.

We take this occasion of again inviting suggestions or queries for the mutual benefit of all our read-If you do not see what you want, ask for it, and as nearly as possible we will comply with all requests.

Is not this an excellent season to decorate your school house with a flag of our country. The approach of Washington's Birthday suggests this.

What educational books have you read thus far?

### Facts and Figures About Population.

The population of the United States June 6, 1890, as ascertained at the 11th census, exclusive of white persons in the Indian Territory, Indians upon reservations and in Alaska, was 62,622,250.

Taking the whole country, the progress of growth has been along the thirty-ninth parallel of latitude. The center of population, meaning thereby the center of gravity of the population of the whole country, each individual assumed to have the same weight, was in twenty miles east of Columbus, Indiana, five hundred and five miles west of the point at which it was located one hundred years ago. Four and three-tenths per cent. of the entire population is to be found in the coast swamp area and the alluvial region of the Mississippi river.

consists mainly of the colored race. At great altitudes, but few people are permanently living. One-sixth of the people live less than 100 feet above the sea level. The distribution of population relative to mean annual rainfall, indicates not only the tendency of people to seek arable lands, but their conditions as to general healthfulness. The average rainfall in this country is less than 29.6 inches, but the variations range from zero to perhaps one hundred and twenty-five inches. The greater proportion of the people of the United States are living in the regions in which the annual rainfall is between thirty and fifty inches.

### Sleeplessness and its Cure.

The constant mental strain to which all teachers are subject is our reason for placing this article, in the hope that it produce some good effect.—Editor.]

We live in an age of nervousness. Weakness of nerves is the proof of an over-refined civilization, which over-excites the active life and weakens the vegetative. Whole nations have already been ruined Europe. number of those who suffer from but only exhausting. greatly increasing. order of things, needs sleep as well in great trouble or anxiety.

during the waking hours. celebrated physician and chemist, Max von Pettenkoffer, has ascertained,, from careful experiments, that even by slight exertions proportionally more carbonic acid is secreted than the quantity of oxygen amounts to, which is taken up in that time and used for the production of the out-going carbonic acid. The now absolutely necessary balance is found in sleep, during which not half as much oxygen is consumed but twice as much is taken up. The need of sleep is thus the warning of nature that the time has come when the disproportion between the expenditure, supply and stock on hand of oxygen has reached its extreme limit, and that it is necessary, through frugal use and heavy supply, to replenish the This adjustment is most energetic during the first two or three hours, from which it follows that sleep is then soundest. A healthy normal sleep ordinarily lasts seven hours. The causes of sleeplessness may be different, but they always affect the brain, which is the evil to be kept in mind during an attempt at recovery. As already stated, every disturbance of the brain signifies a sleepless night; and nothing is more wretched and exhaustive than when one hunts for his nightly sleep as a pressing need, and fails to find it. on this account, and Rousseau Then arises a feverish heat and prophesied the ruin of all civilized restlessness, a wild succession of This destruction will phantasms appear, and if one falls certainly be for some time deferred, at last into a short morning slumbut it is a melancholy fact that the ber, even this is not refreshing, Even the nervousness and sleeplessness is disturbance of habits excites sleep-The animal lessness, a strange bed, strange life cannot continue an unbroken diet or unusual events of the day. 1790 twenty-three miles east of activity either in work or enjoy- Though this is only temporary, it Baltimore, Md. In 1890 it was ment; from time to time the nerves particularly affects such patients as are exhausted; life returns periodi- suffer from chronic sleeplessness. cally into the condition of uncon- This has its origin in continual sciousness; man, in the natural physical or mental over-exertion, as food. Sleeplessness emaciates Further, intemperance and gluttony man, weakens him, and a continued produce sleeplessness, as well as loss of sleep leads, under great hunger and thirst. For still too suffering, to death. It proves this, many attacks the best cure is a that in sleep certain conditions of physical and mental strengthening activity must happen in the human by means of continual measured This population organism which are impossible diet. Sleeplessness arising through

grief, care or sorrow must be cured by a strong will and recreation. In Australasia-a century ago al-Nurture and education of the mind most an unknown world, now a are as necessary and wholesome as great collection of populous, selfthat of the body. The will is to be governing exercised and strengthened, for movement toward confederation very much may be done by will has made great progress. A form most part successful, power, through diverting the mind of constitution has been proposed. from the sorrows and disagreeable The very obstacles that have been occurences of the day, by compel- met by those who favor the union ling one's self to think of indifferent only make it more evident that a matters. One must not yield to nation with a mighty future before despondency or despair, but con- it already exists on the great southsider that trouble and anxiety will ern continent. not make things better, but weaken the health, which is the first scene of revolution. In Brazil, of 1890, and the going into effect necessity towards a joyful life of after a sharp contest which threat of the International Copyright law usefulness. One already enfeebled ened to become a serious affair, are the only public matters that by sleeplessness must necessarily the President of the republic re-need be mentioned here. The change his way of living. Change signed. In Chile the victors in a crops of the United States were of place, other associates, other sharp and bloody civil war over almost universally good; those of scenes will be healthful and quieting; turned the government. Argen-the rest of the world were either but if the patient is already com- tina has passed through a year of pletely conquered, then, for entire great depression, uncertainty and low it. The consequences of this physical and mental health, careful anxiety. nursing and good nourishment are needed, and at intervals of from out in China, the bursting into two to three hours light, digestible flame of long-smouldering embers, food must be brought. rubbing of the body has been most serious character. proved healing in the highest "The peace of Europe has been illustrious names: General Sherdegree, because the bodily activity assured" by the six great Powers man, Admiral Porter, General is strengthened throughout, while ranging themselves in two semithe mechanical pressure on the hostile camps: Russia and France Von Moltke, George Bancroft, brain, muscles, nerves and bowels on the one side; while Germany, James Russell Lowell, Meissonier, accelerates the circulation of the Austria-Hungary and Italy, on the the artist, P. T. Barnum—these blood and the digestion. Hippocrates learned, two thousand Alliance, to which Great Britain come to every mind. years ago, that the body was lends support so long as its purhardened by vigorous, softened by pose is really peaceful. gentle, and made healthy by moderate rubbing. Both in severe Jews in Russia, the financial stress, and light cases of sleeplessness and the famine that exists over a should opiates be avoided.

nervous system is the certain and of the world to the great northern the Treasury; Great Britain, Lord enduring result of such habits.-Translated from the New York Belletristisches Journal.

### A Glance Backwards.

crowded with facts of great interest. No great war has devastated has witnessed nothing more ex- and General Boulanger? record of the year past contains defeated. events that will be memorable in the history of every continent.

Let us begin at the Antipodes. British colonies—a

In far Asia a rebellion has broken Also and the consequences may be of a

other, have renewed the Triple are a few of the names that will

part of the country as the year Complete destruction of the closes, have drawn the attention has lost Mr. Windom, Secretary of despotism.

> fered a great loss of credit, and has many, Herr Windhorst; France, year, on the brink of revolution, premier, Sir John MacDonald. the internal state of Europe has been quiet.

pies much of the attention of from the roll of the living.

British statesmen. The most important political events in the United Kingdom were some elections to fill vacancies in Parliament, in which the Liberals were for the

Not much has occurred at home to stir popular passion or to excite political antagonisms. The conclusion of reciprocity agreements with Spain, Brazil and other countries, the new apportionment of South America has been the representatives under the census barely up to the average, or becondition of things will be seen far more distinctly in the record of 1892, than in that of the year just closing.

The list of the dead of the year is a long one, and includes many Joseph E. Johnson, Field Marshal

Royalty has lost King Karl of Wurtemberg, King Kalakaua of The continued persecution of the Hawaii, Dom Pedro, late Emperor of Brazil, and the Crown Prince of

Belgium.

Of statesmen the United States Granville and Mr. William Henry Except that Portugal has suf-Smith, Ireland, Mr. Parnell; Gerseemed to be, during the whole Jules Grevy; Canada, its veteran

How shall we classify Charles France, Germany, Bradlaugh; and Balmaceda, of The year of 1891 has been Austria, even the Balkan States, Chile; and Prince Napoleon, the have been undisturbed; and Italy Imperialist pretender of France, a continent, or changed the bound citing than a cabinet crisis, when were not statesmen, but each of aries between nations. Yet the the ministry of Signor Crispi was them filled for a time a large space on the page of current history, and The state of Ireland still occu- all these names are now erased

#### GEORGE WASHINGTON.

MAY ALEXANDRA FRASER.

historian and the sage of all nations studied the latter to very good points of vantage along the vast to let no occasion pass of commem- advantage, for when he was only water-ways in the heart of the conorating this illustrious man, and sixteen he was employed by Lord tinent. until time shall be no more, will a Fairfax, who owned a great deal test of the progress which our race of land in the neighborhood, to work led him among the wilds of has made in wisdom and virtue be survey for him, at a salary which what is now Kentucky, Ohio and

to the immortal name of Washington." — Lord BROUHAM.

George Washington was born in Westmoreland county, Virginia, on the 22nd day of February, 1732. Heattended school until he was sixteen years of age, part of the time at a little countryschool house, where he drilled the boys in tactics, in imitation of his brother Lawrence, who was a captain in the navy. He was a very courageous boy, fond of all sorts of athletic sports, and so just that his playmates brought him their quarrels to settle.

He was careful painstaking about his personal appearance and all that he did. His composition books

contain over one hundred "rules more so then. for behavior in company," which

derived from the veneration paid would seem phenominal in these western Pennsylvania, and showed

Washingo

have been preserved, and they days, and must have seemed much many years.

he would like to have him enter grew and prospered, they spread the navy, but his mother did not beyond the rocky wall of mounwant to part with him, so he staid tains on their west, only to find at school, studying book-keeping themselves menaced by a rival "It will be the duty of the and surveying. He must have power, which already held many

Young George Washington's

him that a contest could not long be deferred. It came, and Washington, though only nineteen years of age, was made a major of militia, and sent out to warn the French off the English territory.

He served through the seven years' war with great distinction. Canada and all the territory east of the Mississippi were secured by the English, and the young officer through whom it was accomplished became the idol of the people. Meanwhile, having inherited Mt. Vernon by the death of his brother, and married Mrs. Martha Custis, a widow, he retired to his home at Mt. Vernon, and continued to live there quietly for

But Washington was not des-Few, if any, of the early settlers tined to spend his life as a quiet he not only wrote neatly, but tried had any adequate idea of the country gentlemen. The oppresto follow in his daily life.

The oppresto follow in his daily life.

The opprestored while sions of the English government His father died when he was the English were settling along grew more and more burdensome, eleven years of age, and Lawrence, the coast from Maine to Georgia, until finally the feeling of disconthe eldest son, inherited the home- the French had penetrated the tent among the colonists culminastead, Mt. Vernon, and the bulk interior, establishing missions and ted in a great congress, made up of the property, after the manner trading posts from the Gulf of St. of delegates from the different of those days, and, indeed, of the Lawrence to the mouth of the colonies. This congress, of which present time in some countries. Mississippi. These were necessar- Washington was a member, de-Lawrence was very fond of his ily at great intervals. As the manded the repeal of the obnoxmanly little brother, and thought thirteen colonies along the coast lous laws. Not only was this denied, but English troops continued to harass the Americans, until at but refused to serve a third term. last, war broke out in the vicinity of Boston, without the intervention of Congress. Seeing that it was impossible to obtain justice at the hands of the mother-country, the colonists decided to fight for their rights. A head was needed for the army. Who was there so well fitted for the position as he who had already led the way to victory? George Washington was made General and Commander-in-chief of the American forces. He immediately marched against the English troops at Boston, and soon made it so uncomfortable for them that they took to their ships and sailed away.

On the 4th of July, 1776, Congress, by the famous "Declaration of Independence," declared the American colonies no longer subjects of Great Britain, but free and independent States. The English government sent a fleet to attack Washington York, and New marched to its defense.

The scope of this paper will not permit an account of the engagements that followed-marches and counter-marches over bad roads or no roads at all, through all sorts of weather, with insufficient food, shelter and clothing. We, amid our unlimited credit and resources, can hardly realize the difficulties which beset that scanty army of | reports to the disparagement of any. resolute men-can have but faint conception of the perils and privations of that Revolution, amid the throes of which was born this Republic, the United States of America.

After almost seven years of struggle, Great Britain acknowledged the independence of the United States, and General Washington went back to his home, but when wielded in his country's not to stay. A convention met in Philadelphia in 1787, and adopted a Constitution, by which it became the legislator! In war contending, necessary to choose a President. by the wages of battle, for the Again his country needed a head, independence of his country, and and to whom should she turn but for the freedom of the human race to him, her hero, her defender, the | -ever manifesting, amidst its

gurated in 1789, re-elected in 1792, He died at Mt. Vernon in 1799.

"The first, the last, the best, The Cincinnatus of the West

Whom envy dared not hate, Bequeathed the name of Washington, To make man blush there was but one."

The birthday of the "Father of his country!" May it ever be freshly remembered by American hearts! May it ever re awaken in them a filial veneration for his . . . He was the memory. first man of the time in which he grew. His memory is first and most sacred in our love, and ever hereafter, till the last drop of blood shall freeze in the last American heart, his name shall be a spell of power and of might.—Rufus CHOATE.

#### WASHINGTON'S MAXIMS.

" Labor to keep alive in your heart that little spark of divine fire called conscience.

"Let your conversation be without malice or envy."

"'Tis better to be alone than in bad company.'

"Deride no man's misfortune, though there seem some cause."

"Let your recreation be manful, not sinful.'

"Sit not when others stand."

"Be not curious to know the affairs of others; neither approach to those who speak in private."

"Do not be hasty to believe flying "Sublime matters treat seriously."

"When you speak of God or His words of reverence."

"He was first, last and always a soldier when military duty was to be done."

"Washington, whose sword was never drawn but in the cause of his country, and never sheathed

"Washington, the warrior and to him, her hero, her defender, the first love of her heart, "First in war, first in peace, and first in the hearts of his countrymen."

—ever manifesting, amidst its streets, will on and after Monday, Jan. 25, 1892, occupy the fourth and fifth flours of the Hickox Block, northwest corner of Euclid avenue and Erie street. Temporary entrance, north end of building on Project of Proje President Washington was inau- pathies of humanity; in peace, ing on Erie street, Cleveland, O.

soothing the ferocious spirit of discord among his own countrymen into harmony and union, and giving to that very sword, now presented to his country, a charm more potent than that attributed in ancient times to the lyre of Orpheus."

### Coast Defense.

Senator Dolph has labored and studied to perfect his knowledge in the comprehension of the whole subject of coast defense, on land and along the enormous coast lines upon the Atlantic and Pacific, and will report a bill from the committce during the session, to provide for the great work. An immense amount of property is involved in the common peril, in the event of war with any power which possesses an effective or formidable navy. The harbors and cities of Boston and New York, upon the Atlantic, and of San Francisco and the cities of Puget Sound, are in greater danger from foreign attack and destruction of property than any others, yet there is small and totally inadequate protection against this danger by coast defenses in view of the modern methods and engines of offensive warfare. There is not a seaport in the United States, nor a city upon the Great Lakes, sufficiently fortified against hostile attack to withstand the war-vessels of the great powers of Europe, or even those of attributes, let it be seriously and with Chile. That Congress ought to make suitable provision against this common danger, by the construction and arming of coast fortifications and floating batteries, with swift, strong-armored vessels beside, for the protection of the vast aggregate of life and property exposed and imperiled, is the common sentiment of the people. -San Francisco Argonaut.

### NOTICE OF REMOVAL.

The General Offices of the N. Y., C. & St. L. R. R. Co., formerly occupying the Hoyt Block, corner of Bank and St. Clair

### Geography.

### American Cities.

In the United States the general progress of the people has found its most eloquent expression in the great centers of commercial activity. Though producing food material enough to supply half the globe, Americans are not the west, we must touch upon Bosby instinct, taste or education an agricultural people.

Trade and commerce in all their aspects claim the best energies, the best thought and the most intelligent application of the people. Marvelous cities have marked the men, demands attention. It will times, its inhabitants numbered the progress of civilization as it be a relief to the European to find 306,605. The population at the has extended across the American himself in a city which, although present writing is estimated at age have built towns—settlements they were called, first of all. The takable English impress. country has grown around them later on. This is a reversal of the the next stop will be Pittsburgh, order which obtains in the upbuilding of European nations. These American cities will attract the attention of the great majority of strangers who will visit this greater than that of any other city country during the forthcoming in either hemisphere. Exposition. Imperial among these great cities is New York, the beautiful and bustling city, by a metropolis of this mighty republic, great unsalted sea. Here is loin many respects the most remark-cated the home of the celebrated able city on the globe. It is the great | Standard Oil company—a company financial and commercial center of that practically controls the petrothe United States. Within easy access is the magnificent scenery of the Hudson and the Cattskills, the ing market of the world. In the beautiful city of churches across the bridge, and the delightful summer resorts which dot the coast.

Then, there is Philadelphia, great commercial centers of the portance, besides having a large manufactures find a market in Union. Here American Inde-shipping trade. Here American Inde-shipping trade. pendence, born at Lexington, cradled in Boston, attained its Cincinnati, a semi-southern city,

failed to make it so. Its people do continues to be great.

in most instances they have fled to Washington to escape them. It is a city given over almost wholly to political and social duties and pleasures. Baltimore, the monumental city, is close by, and from an American point of view, it is an ancient city. It is the most northern of the southern cities, and the most consequential one. Before turning one's face toward ton, the home of American culture and the cradle of American Liberby so many events, by so many American cities, bears the unmis-

which is often called the American Birmingham. The output of its in the Chicago public school sysmills and factories in iron, steel, brass and metal generally, is

Now we come to Cleveland, a leum production and traffic of the Chicago has the most elaborate, United States, and the illuminatmagnificent city of the dead, which tems, forming a semi-circle around overlooks the lake, lie the remains the city. Her park area is 2,006 of President Garfield, and on the acres. way to this silent city you pass which until a few months past has along Euclid avenue, pronounced pire extends from the Alleghany been recognized as the second city by all travelers the grandest in the mountains to the Pacific ocean, of this continent. It is one of the world. Cleveland is a manufachistoric cities, as well as one of the turing city of considerable im- of Mexico. Her products and

Union, and one of the most important centers upon the conti-

The Mecca of the traveler during the next three years will be Chicago. One hundred years ago there was no such name on the map of the world. Less than seventy-years ago it was a border, fur-trading village, where were collected a few rude huts and rude people, red and white. At the outbreak of the civil war it had grown to 100,206. At the war's ty; a city made famous abroad by close it had grown to 200,418. In Bunker Hill, by Fanueil Hall, by 1870, just before two-thirds of the Longfellow, Holmes and Lowell, city was destroyed by the most dreadful conflagration of modern The pioneers of the the most distinctively American of 1,250,000. The manufactured products of the city in 1800 were valued at \$96,200,000. But these In the ordinary course of travel figures show the material advancement only of the city.

The amount of money invested tem to-day is \$50,000,000; the number of pupils attending these schools daily in 1890, was 135,-000; the number of teachers employed, 2,842, and the cost of maintaining the system in 1890, was \$3,787,222. There are in addition to this, private schools, seminaries and universities, having over 62,000 pupils in attendance. and in many respects, the grandest of all park and boulevard sys-

Chicago's real commercial emfrom British America to the Gulf every part of the world. She is In the southern part of Ohio is the greatest lumber, grain and meat distributing point in the where northern and southern types world. To convey an idea of the Washington, the nation's capi- meet and mingle. For years it business done in Chicago, the foltal, not far away, is, without was pronounced the Paris of Amer- lowing items will be useful: In question, one of the handsomest ica, but that was before there were 1890, the value of dry goods and cities on the earth. The magnifi-cities in the northwest to dispute carpets sold at wholesole, \$93,cent national buildings alone have the title. Her river traffic still 730,000; of groceries, \$56,700 000; of clothing, \$21,500,00g; of not encourage the industrial arts; St. Louis is the fifth city of the boots and shoes, \$25,000,000; of jewelry, watches and diamonds, \$20,400,000.

The aggregate annual cost of the municipal government is about geo-Chicago's \$14,000,000. graphical position, her accessiaccommodation of large crowds, had very great weight in the confor the World's Columbian Exposition. — The Exposition Graphic.

### The Interoceanic Canal of Nicaragua.

In a volume of some 200 pages handsomely illustrated with picthe Nicaragua Canal Construction width of but eighty feet, which, Company, are represented in an in- however, is eight feet wider than teresting manner the history of the that of the Suez Canal. The re-Nicaragua Canal undertaking, the mainder will have a bottom from financial aspect of the enterprise, subject by Senators Morgan and States charter and the various confinally located the canal is to have a length of 1691/2 miles, of which twenty-six and three-fourths will be excavated channel, and 142% of suitable dams and embankments tended to within twelve and threethirty-one feet.

midable work, will be constructed. ican capitalists. They desire the This dam is to be 1,900 feet long, with a maximum height of seventy their bonds in order to raise money feet. The "Eastern Divide," cut at easy rates, the plea being that bility to all parts of the nation and through the main Cordillera, 298 the canal will thus be most cheaply of the world, her facilities for the feet above the summit level, is built and the tolls charged would perhaps the most difficult piece of be less than they would be if caplabor on the entire route. This ital had to be raised on private test for the selection of a location cut, mostly through rock, is to be credit. Should Congress refuse to two and nine-tenths miles long, with an average depth of 141 feet. From the lake to the Pacific there thought, is that the canal will be are seventeen miles. Three locks built by European capitalists, who and a dam 1,800 feet long, and seventy feet high are required here. the company's concession. Of the twenty-six and three-fourths any event it is likely to be built miles of excavated channel thirteen within a brief period, which is the tures and maps just published by and one-fourth have a bottom main consideration. work so far accomplished and the 120 to 150 feet wide. It is esti- interested in the arid lands probmated that the speed of vessels in lem. Should the project of contogether with the speeches on the the narrowest channels will be two veying these lands absolutely to and one-half miles an hour; in the the States be carried out these two Sherman, and copies of the United broader channels, five miles an States may be seriously affected. hour; in the basin, seven miles an All our water-courses of any concessions, treaties, reports, etc. As hour; in the San Juan, eight miles sequence rise in Wyoming and an hour; in Lake Nicaragua, ten Colorado. If these latter States miles an hour. With lockages of are given absolute control of the from six to forty-five minutes each, irrigation question as it applies to the entire time of transit would be the arid lands of those States, they miles will be in lakes, rivers and twenty-eight hours. The cost of will have it in their power to debasins. The summit level will be the canal is estimated by the chief prive us absolutely of the water that of Lake Nicaragua, 110 feet engineer at \$80,084,187; by cer- which now courses across the State above the sea. By the erection tain distinguished engineers who in the Republican, Platte and were consulted at \$107,799,570. the level of the lake will be ex- Five per cent. interest on the first to store it, and so prevent us from of these estimates would require obtaining any benefit from the fourths miles of the Atlantic and \$4,042,083, whereas the estimated sources in the mountains. to within three and one-half miles net earnings on a business of people of Colorado have already of the Pacific, the total length of 6,500,000 tons amounts to \$14,- taken possession of the headthis reach of smooth water being 750,000. If the second estimate waters of the South Platte, and at thus 153½ miles. There will be be the correct one, \$5,388,979 a times that stream is dry. In Colthree locks near either end. The year would pay interest charges. orado and Wyoming are the water-first, nine one-fourth miles from It is believed, however, that sheds of this country. It is not the Atlantic, will give a lift of 9,730,290 tons of shipping will be surprising that they should be Some one and attracted to the new interoceanic enthusiastically in favor of State one-fourth miles further on is the route during the second year of ownership of the arid lands and second lock, giving a lift of thirty its availability. Its advantage to State regulation of the question of feet, and two miles beyond is a the world's commerce is obvious. irrigation. With such authority third, with a lift of forty-five feet. The trade of the United States-The vessel that has passed this and particularly of the Gulf States fertile acre within their boundaries, third lock will then have before it, -would, it is thought, be greatly but in doing so they might imas already stated, the lake level increased by the easy communi-for a distance of 153 1/4 miles, with cation the canal would supply beample spaces for anchorage and for tween the eastern and western all of New Mexico, and parts of passing other vessels. To hold the coasts of the two American conti- Utah, Idahoand Arizona. — Bee.

waters of the river San Jaun up to nents. At present the work is, it the lake level the Ochoa dam, a for- is believed, in the hands of Amer-Federal Government to indorse indorse the company's bonds or buy its stock the prospect, it is are said to be anxious to obtain

### The Arid Lands Problem.

Nebraska and Kansas are deeply Niobrara rivers. They may choose they could readily develop every

### Revie

MOTTS—Pedetentim et Gradatim Oriamur.

ETTA MAY McClure, Editor.

We are sorry to hear of the illness of Miss Nettie Storer, a former are glad to know they will aga'n Hornbake, of Vanderbilt; W. H. member.

Mr. and Mrs. W. D. Brightwell were with us at the joint meeting on February 19

A committee has been appointed to procure a powerful hanging lamp to displace the chandelier.

The joint meeting promises to be a great success, especially the oration class, which is something new.

Some faint rumors of a new carpet for Clio are floating through the air. May they grow stronger.

Miss Bertha Carroll, an earnest Clio, will be with us next term. We shall be glad to have her place filled.

We are now free of debt and have quite a neat sum to our credit in the First National Bank of California.

Quite a number of last year's class are expected back for a short visit the 22d. We are always glad to welcome our old friends back.

Miss Hattie P. Burke, now of Cornell university, is taking a special course in English Literature and is enjoying her work thoroughly.

Our work so far has been very satisfactory; our attendance is very large, and the question now is, how will the hall accommodate all next term?

Prof. Meese was chosen as an honorary member a few meetings since, after which he was called on and thanked the society and gave a few words of advice.

be members of Clio. We have a warm welcome for them.

Our constitution has been remodeled and new clauses inserted. The work to be done in the future will undoubtedly show the advisability of such measures.

Miss Pearl Lewellen favored us with a vocal solo, Feb. 12. can't more of our Preps. take such an interest in the work? Their contributions are always acceptable.

It really does one good to see the bright, interested faces that greet one every Friday night in And our prayer is, Clio hall. "May the good increase, and we be made more worthy workers."

On Friday, Dec. 12, the question, "Resolved, That the study of the grasshopper is more beneficial than the study of arithmetic," was ably discussed. Mr. Mitchell produced a grasshopper, which was fearfully and wonderfully made, and by which he ably illustrated his points.

Supt. Hugus, of Westmoreland, visited the Normal a week ar two ago. His remarks in the chapel were highly appreciated, and we hope that we shall be again favored with his presence in the future. Mrs. Hugus, who accompanied him, was at one time a student of the Normal.

at the Jefferson school, Franklin township, on Saturday, Feb. 5th. Among those taking part were Quite a number of our Clio Prof Chubb, of the Normal; Prin. alumni expect to take the Post-Lee Smith, of Uniontown; J. O.

graduate course next term and we Arnold, of New Haven; J. D Martin, of Ursina, and others.

> An educational convention was held at Monongahela City, Feb 5th and 6th, in charge of Supt. Tombaugh. Among the speakers were Dr. Noss and Prof. Bryan, of the Normal; Supt. Hugus, of Westmoreland; Prin. Kendall, of Homestead; Prin. Smith, of Belle. Vernon; Prin. Porter, of Bridgeport, and others.

On Tuesday, Dec. 24th, '91, Mr. C. L. McKee, formerly a student in the Normal, and now a student in the Western Theological Seminary, Allegheny, and Miss Francis R. Junk, of Laurel Hill, were married. The officiating clergymen were Rev. Reed, of Laurel Hill, and Rev. D. H. McKee, '79, of Bridgeville. The attendants were Jos. McKee, M. D., and Miss Sadie Long. The newly married couple spent their honey moon at West Point, O., where Mr. McKee is stated supply of a Presbyterian church.

The District Institute held recently at West Alexander, conducted by Supt. Tombaugh, was a complete success. Teachers and others discussed the topics of the program. The talks given were interesting and showed that considerable interest exists in school management. Miss Bertha Carroll, of Beham, rendered a recitation which won great applause. Miss Annie Ankrom, of Claysville, with An interesting institute was held a class of children, gave an exhibition of what may be accomplished in gaining and enlarging a vocabu-Among those present were J. I. Blayney, E. E. McGill, T. H. Sutherland and Irene Armstrong.

## Philomathean Galaxy.

Motto—Non Palma Sine Pulvere.

ORLANDO HUSK, Editor.

Philo was favored by a visit from two staunch members of '90 and '91, Misses Momeyer and Reed.

Mr. Hart told us in his inaugural, that if he made any mistakes, they would be of the head and not of the-heart.

We are often given a treat in the shape of a vocal solo by our friend, Mr. Jobes, though not as frequently as we would like

Miss Ella Teggart, of Fayette City, '89, died on Friday the 5th inst., and was buried on Sunday. A good worker gone home.

We are very glad to hear that Mr. L S. Weaver, who left school last year on account of ill health, Philo sends conhas recovered. gratulations.

Miss Hattie Westbay, on ardent Philo, is teaching at Reynoldton and having good success; also Miss Bentley, a successful contestant, at Elizabeth

There is some talk of an excursion by the Senior class to Washington D. C., some time in the spring. No doubt but that it will be a good thing for all

The name of Miss Sigmiller, supervisor of drawing in the Allegheny City schools, has been added; to our list of honorary members, and Miss Patten, of Connecticut, a joined our ranks.

visit from Messrs. Henderson and Gabby, who visited their sons, who are students here. The sons are Philos and now the fathers are also Philos, having been made honorary members. They each made a " Join Philo " and they very often

The officers elected at the last election are: President, Mr. Hart; once more. Every issue seems marshal, Mr. Husk.

Mr. O. S. Chalfant, who was recently admitted to the Washington county bar, was a welcome visitor a few evenings ago. He was an active Philo and is now an honorary member. He gave us a short talk on the question, "Should Mand Muller have married the two societies on Friday evening, Judge?"

Mr. C. H. Dils, who is attending Col. Parkers's school in Chicago, paid our school a visit on Monday, the 8th inst. Mr. Dils seems determined to excel as a teacher, having graduated here last year and very good and, being something almost immediately entering school again. Philo would like him to call before returning and give one of his entertaining speeches

We were summoned in called meeting on the 9th inst. to take laction on the death of one of our active members, Mr. C. J. Nichol, who died on the 17th Although but a short time with us, we shall miss him, and the society extends its sympathy to the family. A committee was appointed to draft resolutions of respect for Mr. Nichol.

The question has been asked,! sister of our Miss Patten, has also "Why do we want honorary members!" This is why. They are We were pleased to receive a either graduates of the school or else engaged in some other professional work and are very often the means of sending us active members If a Philo knows of anyone coming here to school he says,

The NORMAL REVIEW appears vice-president, Miss Greenwood; more anxiously waited for than the secretary, Miss Longdon; attorney, last. Why! Because it becomes Mr. Henderson: critic, Mr. Cole-t better every issue. We might say bank; treasurer, Miss Musgrave; the same of Philo. Every Friday evening sees better work done by its members. The classes are full and the hall is full, which speaks well for us. For if the perfer mances were not good, our visitors would not come back to spend the evening with us.

> The joint meeting held by the Feb. 19, was a genuine success and was well attended by the citizens of the two towns. The performers were about evenly divided between Clio and Philo. The "Monologue" given by Miss Dalbey of Philo, was entirely new, was well received. Miss Lytle's (Cho) e-say, "The Cincinnatus of the West," was fine and well rendered. The original oration given by Mr. Washabaugh showed careful preparation and except for some little hesitation was well delivered. Miss Wilson's essays are always a treat, but this time she did better than ever. But the crowning performance of the evening was the debate, Resolved, " That the Eight-hour System should not be established. '' The affirmative was represented by Messrs. Mitchell and Hart; negative, Messrs. Powell and Carter. Profs. McCallough, I. L. Smith, J. E. Masters, Walter Hertzog, Wm. Howe, Chas. Phillips and W. D. Brightwell, former students, visited us. Mr. Brightwell was accompanied by his wife.

Miss Carrie Wilson will teach

### Language.

### On Teaching the Effective Use of English.

No accomplishment excels a thorough mastry of English. Those who have acquired it are the most cultivated and scholarly men and women of our age. This superiority frequently passes unnoticed; of meaning conveyed by the for it has a certain subtle quality like the delicate odor of roses. On reading or listening to the best English, we never think of the form of expression; and not till afterward, when the clearness of our concep- it conveys; and to understand ion reveals itself, do we notice the thoroughly how these fine shades learned through the eye, the whole beauty and appropriateness of the take on different colors when the field of literature, the fossilized language. To use English appropriately, elegantly and forcibly, by changing from the active to the to the mind. Here the language implies not only a thorough knowledge of the language itself, but or by the rearrangement of words early stages of studying language also a broad culture. It implies and expressions, and by the subboth connected, logical thought, stitution of other words — this apprehend the thought; the second and the ability to clothe the requires both a wide range of to give vocal expression in the thought grammatically, rhetorically reading and an exhaustive study language of the author; and the and connectedly in fit language. of the subject matter treated in the third, to express the thought in A style as massive and majestic literature. The mastry of English as that of Burke or Macaulay renders any man immortal. The successive easy steps, and not at view for January. power to use the English language one bound; but the aim should perfectly cannot be attained in the always be towards this end. For Hints in Language Teaching early years of life. It comes only what the pupil can express, is the with mature discipline and ripe only sure index of his progress and scholarship. the English language well, that is, through the ear, and used orally to employ the language appropriate and unconsciously by the child, to the degree of advancement in just as he breathes. The language of the child, grown to a larger stature, will be the language of the man; the early language of the man; the carly language of the child, grown to say, the teather a definite purpose. Random expension of the child, grown to say it properties a definite purpose. Random expension of the child, grown to say it properties are the bane of our teaching in this department, and the method, in conducting the bed-rock, so to speak, of the language of the child, grown to say, the teather a definite purpose. Random expension of the child, grown to say it properties are the bane of our teaching in this department, and the method, in conducting the bed-rock, so to speak, of the language of the man; the carly language of the man; the ca later English. Grandfather," for example, present pressed appropriately, with the their school-rooms equipped with

historical truth, in a most impressive way, to grown people as well as to children; and his "Wonder Book," by the simplicity and directness of its narrative, reveals the ancient fables, legends and myths, to the minds of both youths and adults, much more vividly than the more elaborate styles in which these tales are usually expressed. To know the fine shades is that speech is allowed to be different forms of expression, and by the several words employed and sion should not be stimulated their location in the sentence, beyond the thought to be expressrequires a careful study both of the ed; but it should always accomplanguage itself and of the thought any the thought. expression is slightly modifiedpassive or the reverse, for example, suggests the thought. must be sought indirectly and by But the power to use thought. Language is first learned thought and culture, to suit the imitates. If the language of those rules, but that this requires ceaseexpression to the thought and the about him be correct, his will be less, patient, systematic, wellthought to the expression, in all correct. The child must be taught, directed reading, "writing and the elegance of the simplicity of from his first entrance at school, to speaking it in established and ap our noble mother tongue, should speak correctly; not by precept, proved forms. be trained simultaneously with the but by example. He need not at developing faculties of the child. first be told why one form is cor- therefore, of a variety of well aimed And if this development is natural rect and another incorrect; but exercises, each one being a part o and correct, nothing once learned keeping his attention upon what he a well conceived plan and having will ever need to be unlearned really wishes to say, the teacher a definite purpose. Random ex Accordingly the it should be thrown aside at once; lower grades, is probably open to best writers exhibit their most and the right expression should be more just criticism than tha effective style when they write from substituted and impressed upon of any other department. Teach-the plane of the child's understand- the mind. New ideas should be ers look up a "Lesson" and think Hawthorne's "Tales of a awakened by the teacher and ex- it is a good thing, and go forth to

This is teacher's aid if necessary. a large and ever-present task in school—in all schools from the first to the last. Sometimes the thought suggests the expression, and sometimes the expression suggests the thought; but they should never be One of the greatest separated. faults in the teaching of language used without reference to the ideas which it should convey. Expres-When at a subsequent period language is thought of humanity, is laid open In the in this form, the first object is to one's own language. - Prof. Albert P. Marble, in the Educational Re-

S. O. S., WEST CLEVELAND, O.

It is conceded generally nowadays that the use of the English The child Language cannot be learned by

Teaching good English consists

and for once they are "going to give a first-class lesson in 'Language.'" The lesson is given, and the teacher congratulates herself that she has done a good thing. By and by it occurs to her that this lesson ought to have borne fruit. She did her part well, and apparently the pupils grasped the thought. The difficulty with all this lay in the fact that the lesson, in itself good, formed no part of an intelligent and well formed scheme for giving the pupils possession of good English.

The teacher wishes to give the herself have a clear view of its salient features, and common difficulties, and every exercise must have a definite aim — either to correct some common error or establish some approved possible. The teacher must be an usage—and the value of each exercise must be tested by written in the lines desired, and must be These written exercises have two objects: (1) To fix the facts of usage. (2) To enable the teacher to direct intelligently the daily language drill.

That pupils use what they have learned each day and constantly thereafter, is essential to successful teaching in any branch, but this applies with peculiar force to the teaching of language which can be taught successfully in no other

By various well-graded and systematized exercises, the pupil grasp one by one the main facts in the correct use of English. He must, by composition work, get the notion of its usefulness and of ts completeness as an instrument trashy character. of expression, and go, step by forms. So from the day when he enters school until the day he eaves it, intelligent exercises, which teach approved usage, and vritten production and oral expression, which give him power to ipply what he has learned, must go hand in hand. The ear must be trained to distinguish correct orms; the eye must be taught to

pils to extensive reading.

repelling in their manner. Primary grade, so as not to repress points. exacting in her demands for more correct forms.

The conversational exercises should be such as will excite thought and make the conversations expert in leading the conversation careful not to let one or two pupils monopolize the whole time.

The teacher should become a A beautiful good story-teller. story beautifully told, is one of the most powerful implements in the hands of a teacher. Stories furnish substantial food for the imagination, and touch the sympathies of children more readily and with more telling effect than any other one thing. A teacher is not well eduipped for her work if she has not learned and learned to should always be adapted to the age and mental advancement of the pupils, and, above all else, should not be of an inferior or The standard the Giant Killer, etc., will supply the necessary material. I might here caution my readers to beware should be sifted with great care before using.

hem, and the hand to write them. bered that every recitation is inci- ped for steam heat.

The first is accomplished by con- dentally a lesson in language and versation, oral expression and that care should be exercised in class-drill; the other by writing and securing good expressions all the by tireless drilling on well aimed time. Little attention may be exercises and by encouraging pu- paid to this the first year, the teacher growing more exacting as The teacher must learn the art the pupil approaches the highof conversation (and most teach- er grades, where she should ers may learn much here). Some require all thoughts to be expressed teachers are decidedly formal and in good and correct English. In A | short, all lessons should be language teacher should maintain the atti- lessons, and the special language tude of sympathy and approach- period should be devoted to fixing ableness, especially in the First some particular and well-defined The effectiveness with the child's efforts. It is better to which this work is done will deterencourage him, though he make mine in great measure the effecpupil practically a grasp of our many blunders; and afterwards by tiveness of all other teaching, and great language. She must first degrees she may become more the intellectual vigor of the man.

> The planets Jupiter and Venus are evening stars throughout January. During the month they approach each other, and on the 5th of February they will be in conjunction. At this time they will be very near each other, the distance being only a minute. During January the other planets, Mercury, Mars, Saturnand Uranus are to be seen in the evening, the last two in the constellation Virgo, and Mars in Libra during the first, part of the month and in Scorpion during the latter.

The island of Madagascar has two distinct climates, two classes of natives and two classes of fauna and flora. The island is about the size of France. Along the coast tell a good fund of stories. These it is tropical and malarious, and the natives are darker and larger than in the interior. The interior is a high table land and mountainous. There the climate is cooler and the natives smaller and lighter and classical stories that have come in color than on the coast. But step, through the field of correct down to us through the ages, such in the interior they are more inas Cinderella, Puss in Boots, Jack, telligent and they rule the island. Pittsburg Dispatch.

Statistics of the progress made in of stories with a moral appendage, heating passenger cars by steam though many are desirable yet they from the locomotive have been recently published, showing that fore using.

While a special recitation period the entire passenger rolling stock is set apart for the special study of in the country, including passenger ecognize them; the tongue to use language, yet it should be remem- and sleeping cars, are now equip-

### CURRENT EVENTS.

### Death of the Khedive of Egypt.

The death of the Khedive of Egypt is an important event to the oldest country in the world, where a sovereign, despite the tributary condition of Egypt and the limited power of its nominal ruler, is a greater personage in the eye of the people than some Western Kings with more authority would be in the estimation of their subjects. Were it not for the Eastern superstition about Kingship, the Khedive would be a small sort of person, but as it is, he is a very large shadow in the land, and the throne which once held the master of all Islam is likely to be a sacred object in Egypt for some generations Nevertheless, great changes are taking place along the Nile, and if the Pharaoh who was swallowed up in the Red Sea could rise from its waves and see his ancestral domain again, he would fail to recognize it as the country over which he once ruled. The position of Egypt is subject to such a variety of complications that the death of Tewfik Pasha may cause controversy in Europe, where the former is Turkey, the latter is England. Almost beyond a doubt the English are in Egypt to stay. Their own interests demand it, for the Egyptian debt is very large and is held in England without the chance of payment, unless English troops remain in Egypt and see that the revenues are properly handled. The English advance in the country is similar to that made by them in India, and the Khedive is very much in the position of some of the native Indian princes, while Turkey is thrown out of the question altogether. Certainly, it is much better for the country that they should remain there, for

tually be set down on the map as thick. It bears a fine crop of a province of the British Empire. Old England has her in her grip, and when she gets anything there she rarely lets it go.

Our beautiful national hymn, America, was written by the Rev. Samuel F. Smith in 1832, while he famous. It was first sung in pub-Park street church, Boston, July 4, 1832. Its popularity was assured from that time. Dr. Smith, who was eighty-three years old the 21st of last October, lives in a pleasant home at Newton, Mass., whose piazzas and bay windows look toward the sun. It will be remembered that Dr. Holmes, at the annual reunion of the class of 1829 held in 1859, wrote thus of Dr. Smith:

"And there's a nice youngster of excellent pith, Fate tried to conceal him by naming him Smith. But he shouted a song for the brave and

the free,
Just read on his medal, 'My Country, of
Thee."

Andrew Carnegie began life as some uneasiness and considerable a messenger boy in a Pittsburg telegraph office, and his first upancient land of the Nile has for ward step was taken when he several years been a bone of con-learned telegraphy well enough to tention among three important become an operator. His oppornations. Egypt has two masters, tunity came when he was transone nominal, the other real. The ferred to the service of the Pennsylvania Road, where his worth was soon discovered by Thomas A. Scott, who advanced him rapidly.

Miss Kate Sanborn, the author of "An Abandoned Farm," is said to pride herself on the fact that she has supported herself ever since she was seventeen, her first venture being a school in a big room at her home. She seems, however, to have found lecturing the most profitable of all her various undertakings, and, perhaps, one of the pleasantest. Miss Sanborn's mother was the favorite niece of Daniel Webster.

wherever she has gone in the East, floating island in Sodoga Pond, cause of the globe's being nine Engand has established order and near Jacksonville. The pond is a miles different at the equator and raised the condition of the native mile in length, and the island, which the poles. As the axis got grad

Thus, Egypt may vir-covers one-third of it, is two feet cranberries. - Jewish Messenger.

Another substitute for gutta percha has been discovered in South America, being in the form of a fluid of solidifying properties. It is insoluble in water, and hardens and softens with cold and heat. was a student at Andover, without It will retain any molded shape, any idea that it would ever become can be cut into very thin sheets, and will take the minutest impreslic at a children's celebration in sion upon its surface. It is derived from a plant growing wild in the Concau district.—New York Sun.

> Girton College has a fire brigade which includes nearly all the girls in the institution. This is divided into three corps, each having a captain and sub-captain, all of whom are subject to a general head captain. Each week there is a pump and bucket practice, and in summer there are frequent "window practices," when the girls who volunteer are lowered out of the first-floor window to the ground by means of a rope knotted with one loop over the arms and the other around the hips.

### The Cause of Earthquakes.

At a meeting of a geological society in New England, one of its members who has given the subject great study, stated that the globe was nine miles smaller in diameter at the poles than at the equator, and that the earth rotates on its axis about 26,000 miles every twenty-four hours, which is nearly equal to the speed of a cannon ball. Another thing ascertained was, that the axis of the globe is gradually altering by be coming more oblique, and that it requires about 39,000 years before this alteration arrives at its maxi mum.

When the great velocity at which the earth rotates is taken into con sideration, it is evident that a large amount of centrifugal force musbe exerted, and as Nature neve: did anything without a motive, it One of Vermont's curiosities is a will be seen that this force is the

ually more oblique, so the direc earth is only about fifteen or sixcentrifugal force acts not only at conquered for themselves, a selecright angles to the earth, but has tion of eminent and devoted men." also a lateral motion.

Astronomers have told us that the deviation of the axis arrives at itself all the social elements capaits maximum every 39,000 years, consequently the south pole, when men who, having reached the top the climax occurs, will occupy the of the ladder, generously extend place where the north pole now is. the hand to those who are also It is supposed that the last great striving to reach it, and make them climax was a glacial one, as there really a part of themselves, are it. In the Amazon river district, not rare in the United States. Beare many evidences of eglaciers. and they are to be found also in latitudes farther north. It is supposed that at one time the space now occupied by the Atlantic and mountains, they frequently come the great manufacturer of Pitts- every year. across specimens of conchology, changes are the cause of earth- two millions for the same purpose. quakes, the dislocation and over- It is the same with the universilapping of strata and the submerging and upheaval of continents.

### The Aristocracy in the United States.

The aristocracy in the United States is not at all, as in France, an aristocracy of race, having behind it a past history, but it is above all an aristocracy of work, an elite of eminent citizens, whose individual actions made a vivid impression on society in its onward march. "There are, in American society, superior and inferior elements; the battle of life operates incessantly in choosing between these, assur-

activity a veritable hierarchy." the first 1,000 feet that the tem- of individuals playing an elevated watch their development. That which distinguishes this aristocracy is the desire to raise to now exactly on the equator, there sides the individual patronage, which many rich Americans exer-Pacific oceans were large conti- universities, and even parks. Thus, nents, and when naturalists go up quite recently, Andrew Carnegie, burgh, gave two millions to found which could have got there only a library in that city. To Chicago ties, of which the most celebrated, Harvard, founded in 1638 is to-day immensely wealthy. Many other educational institutions are due to private enterprise, and sometimes have very large incomes. Girard College is an instance of this. The museums, if not entirely founded by individuals, are not the less increased by valuable private collections, bequeathed or given by the owners thereof. There is nothing easier than to establish in America a university, a library, a hospital, a museum. Nothing easier than to firmly establish whatever one máy wish to create; it is only neeessary to name, in one's will, a tions, creating for each branch of affairs, and power given to fill hemp cloth.

vacancies which may occur in their tion of the equator would alter. There has been formed, in every ranks." By means of such use-It is supposed that the crust of the part of the Union, a class of great ful gifts, the rich class of America patrons, who are stamped by their contributes to the public welfare. teen miles in thickness, and below love of public good, combined "To-day," M. de Rousiers conthat distance there is a mass of with their effective action on soci-cludes, "American aristocracy incandescent minerals. This has ety, as members of the new arist exists only in a latent state, but it been proved in one way by min-tocracy. By aristocracy in this is easy to discover its constituent ing, where they find in sinking connection is meant "a collection elements, to see their birth and perature rises very perceptably, and disinterested role, consecrating present, these events play an effecand becomes greater as they get to the public good a notable part tive part in the social constitution lower. It is known, too, that of the advantages which they have and form a useful complement to American democracy. They provide for the administration of a number of general interests, as soon as they come to the surface, without waiting for the public ble of such elevation. "All those funds to provide for them. For one who knows the corruption of American government, the credit of this is not slight. Thanks to this, the United States pursues its progressive march in spite of its are plenty of evidences which prove here included, and such men are corrupt politicians. These corrupt everything they touch, but they can only reach a few things. The voluntary and spontaneous cise toward those less fortunate, government of the natural aristhey give other proofs of their de- tocracy retains its sphere and votion to the public good, by limits their influence.—Translated creating libraries, museums, schools, from the Paris Revue des Revues.

Venezuela has fifty-six holidays

There are eighty-two national by the upheaval of oceans. These another millionaire bequeathed cemeteries in which are buried 328,115 soldiers.

> There are now fifty "tank" steamers plying between this country and Europe, carrying oil in bulk. They carry about 5,000,-000 barrels of oil annually,

> Russia has bought 60,000 tons of cement in Silesia to be used in the construction of fortifications in various places on the Austrian frontier.

> Frederick Douglass has bought the church edifice in which he once worshiped, and to which he is much attached, in order to help the congregation pay off its indebtedness.

In Corfu sheets of paper pass for ing to some the command, precip- Board of Trustees, to whom is money; one sheet buys one quart itating others into dependent posi- intrusted the administration of ofrice, or twenty sheets a piece of

### Arithmetic.

### Two Months Work in Numbers

BY S PT. G. W. M'GINNIS, W. CLEVE-LAND, O.

In my last article I dwelt upon the importance of rapid work. This does not imply that pupils are to be rushed along in an unintelligent and haphazard sort of way. On the contrary, pupils must be made sure at every step. Whatever has been attempted must have been perfectly learned. If children have learned one thing well they are the better able to attack another.

If addition has been taught in spirit, and with the degree of thoroughness indicated, the pupil is ready to take up subtraction and here, as in addition, the teacher's first work is to secure a correct other? concept of the thing to be done.

Let all the pupils take in hand ten objects each. Let them say, with the teacher, "Here are ten objects." Then, as each pupil re moves one he, with the teacher, says, "Here are left nine objects. "One from ten leaves nine." Again. "Here are eight objects." "One from nine leaves eight," etc., down to o, or until all are removed. Two or three exercises of this kind, with objects, are suffi-

Then, let pupils count downwards from 10 without objects until all can do so as fast as they can talk. In a similar way count from 20 downwards, and thus through all the decades to 100.

Let the teacher take, say, two objects in hand, and holding them added to 2 to make 7? Pupils fixed for all time. readily answer 5, and the teacher places them with the 2. How many will be left if 2 be taken from 7? (Teacher removes them) class answers 5.

Repeat the above exercise with other small numbers until every pupil sees that to subtract any number from another he has only to find what number he must add to the smaller to make the larger. His skill in addition will then ena-

ble him to make any subtraction readily and quickly, and his readiness here will give him a consciousness of power over numbers that will greatly stimulate his efforts in this, to him, new and interesting

Next, let pupils name results only, and subtract orally by 2's from 100 to 0, from 161 to 1; by 3's from 100 to 1; from 101 to 2; from 102 to 0; by 4's from 101 to I; from IO2 to 2; from IO3 to 3, etc., etc.

To get variety and secure interest put questions like the following, but at first do not use more than one form at the same sitting:

What number with 5 gives 12? What number taken from 12

5 is one part of 12, what is the

The following is a usfeul slate

The teacher supplies only the first two numbers.

$$6 \times 3 = 9 - 6 = 9 - 3 =$$

Confine this work to minuends below 19 and subtraliends below

In substracting one number from another, no matter how large, the they know what is done. pupil will have no mental operation involving a minuend larger than 18, or a subtrahend larger than 9. Therefore the following should straction, as it contains all the operations necessary.

Let the teacher concentrate the at a time, taking the mind off the to the word, do it. particular ones in hand, only to up, ask: How many must be bring it back again and again until will enable pupils to perform the

| 10     | 9      | 10 | 9 | 10     | 9  |  |
|--------|--------|----|---|--------|----|--|
| 9      | 9<br>8 | 6  | 7 | 5      | 4  |  |
| 8      | 10     | 6  | 8 | 9<br>6 | 8  |  |
| 7      | 8      | 5  | 6 | 6      | 4  |  |
| 9      | 7      | 8  | 9 | 7      | 10 |  |
| 9<br>2 | 6      | 5  | 5 | 3      | 3  |  |
| 7      | IO     | 6  | 8 | 10     | 7  |  |
| 7<br>2 | 7      | 4  | 3 | 4      | 4  |  |
| 5      | 4      | 3  | 5 | 11     | 4  |  |
| 4      | 3      | 2  | 3 | 2      | 2  |  |

|  |  |  | 11<br>9  |  |
|--|--|--|----------|--|
|  |  |  | 6<br>6   |  |
|  |  |  | 1 5<br>7 |  |
|  |  |  | 1 I<br>7 |  |

Let pupils name differences only. Drill on the first thirty-five until pupils can name in any order all the differences in forty seconds. Then drill in the next thirty six until all can give the differences in any order in forty-five seconds or

The pupil is now ready to learn to borrow. Much has been said and written on borrowing, and eminent pedagogues have been arrayed in mortal combat. One very excellent superintendent says: "I recommend that the process be adopted of taking from the upper number altogether, as this is explainable.

However, I teach pupils to add ten to the upper figure when it is smaller than the lower, and that when he has added to the upper he must add one to the next figure below. Let pupils solve several problems in this way, making sure

The teacher must exercise the greatest eare at this point. She must not, absolutely must not explain. Tell the pupil what constitute the drill table for sub- to do, and have him, say, We added to to the upper figure, we must now add to the next figure below and then subtract, and at attention on one or two of these the same time, suiting the action

> A few problems done in this way work readily. The teacher need 10 not hesitate to teach this method, fearing she may be called upon to explain, and in the effort meet with defeat. This method is as simple, 5 logical and philosophical as the 8 other, and as "explainable" also.

After the child has become somewhat skilled in the use of his faculties, and can follow a short course of reasoning, you have only to 5 show him that the same difference 2 between two numbers exists after they have each been increased by not be relied upon to teach that 9 10, that existed before they were and 8 are 17. They are designed so increased, and the work is done. to teach him how to use this fact This may be accomplished any time after the child has learned the principles of notation.

It is a good plan to time pupils frequently. upon a particular problem till they can make fifty combinations per minute. Then take another and another. Pupils are fond of this, and in the hands of a skillful teacher it is a healthy and powerful incentive to effort.

Pupils may tell, and should be encouraged to tell, "number stories" as soon as they have learned the necessary combinations involved, but should never be given such work before, as it tends to confuse and discourage, distract and mystify.

If a pupil is once confused he has had a lesson in dissipation of energy, and incorrect form of thought, and his mind must be brought back to the correct form-must be reformed. He will require to be led over and over again this same line of thought, wherein he has once lost his balance, until he is perfectly clear and out of danger.

There must be no mental treadmill, no senseless cramming to check his activities. His intelligence must be fostered into strength and efficiency, not deadened by the introduction of facts which he can not understand, and which are foreign to the point to be made.

The teacher's work here will determine whether the young minds under her manipulation and care shall develop into vigorous and healthy maturity, or into imbecile and sickly immaturity. To insure the former she must lead them to attempt only that which is easily within the limits of their power.

To give a pupil practical problems involving combinations of three hundred combinations (they numbers which he has not previ-should make four hundred) during ously learned, is a violation of each recitation. Of course many this law, and the injury done him of these must be review, and by so doing is incalculable. After many would be repetitions of the a child has learned that o and 8 particular combinations set apart are 17 he may solve such simple to learn during that particular recproblems as involve these combilitation. nations, but such problems must

which he already knows.

Pupils under the care of a perfect teacher from the beginning will never become confused, but if they Let them practice are required to divide the attention between the logic and the numerical combination (which he does not know) confusion and ruin

will follow closely on.

When a pupil has become proficient in addition and substraction he should be encouraged and required to solve problems, involving both operations, and should explain in every instance which operation is used, and why. Very simple oral problems should be given at first.

There are some simple processes which are useful for class drill, and which I urge teachers to use repeatedly, both for the sake of variety and because they facilitate the work and hasten the advancement of the class.

Work by decades. When a child has learned that 8 and 5 are 13, let him learn that 18 and 5 are 23, and that 28 and 5 are 33, etc. He must be led at once to see that the units figure in each decade is always the same. This once seen he will add or substract readily without further drill.

Teach the proper expression for processes as soon as the pupil has the correct concept. Do not say, 4, take away I leaves 3, but having learned the meaning of the proper expression, say, 4, less I are 3.

At this age pupils are expected to devote about forty minutes daily to numbers. In making a daily programme I would divide this into four periods of ten minutes each, and then use ten full minutes in combining numbers. I should hardly be satisfied with my efforts if I did not get my class to make

horses are hitched three times daily lest they should forget to come to time. Just so with the pupil. He must repeat daily all the combinations he has learned, lest he, too, should forget.

My readers will, I think, agree with me that ordinary children of ordinary minds, ought at least, to learn three combinations each day, so they can name them instantly. Agreeing in this, and bearing in mind that there are only seventyone essential combinations to be learned in subtraction, a small amount of mathematics leads to the conclusion that twenty-three and two-thirds days ought to complete the task, and it will.

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#### Reminiscences of Early Normal Life.

MR. EDITOR: -In response to your kind invitation I send you some recollections of my first term in the California Normal School. It was on Monday evening, March 22d, 1875, that I landed in California. I came up the river on the "Packet"-the railroad was not built until several years later.

I found my way to the " North Dormitory," where I was met by Dr. C. L. Ehrenfeld, who gave me a very cordial welcome. I liked him at the first glance and have held him in high esteem ever since. After a visit to the dining room for supper, I was introduced to my roommate, Mr. C-, who ushered me to our quarters in the main college building. The ladies and faculty lived in the North Dormitory, but the South Dormitory was far from being completed. The boys occupied the unused recitation rooms of the main building. Our room was on the second story of the south wing-the southeast room, now occupied by Prof. Bryan. The only inviting feature about the room was that we had plenty of room. It contained two beds, being intended for four boys, but we had it all to ourselves. There were a number of boys scattered through the main building, and lively fellows they were. They came in that evening to get acquainted with the new student. They entertained me with interesting accounts of how they had succeeded in rousing the whole town by ringing the College bell at midnight and other Normal pranks. After a while some one invited Mr. K --- to come in and bring his violin. Now, K- was a tall, limber fellow, with fierce eyes and a long, black beard. He soon came with his violin and the fun began. K- fiddled: O how he fiddled! He fiddled all over-fierce eyes, long beard, big feet and all. The boys took the floor and how they did dance. They jumped, they pounded, they stamped, they yelled. The bare floor and bare walls echoed and re-echoed the noise. Where was the principal, where were the teachers, I thought. But the boys knew that good Dr. E. was far away in the North Dormitory and that there were no teachers about to molest. At last the boys subsided and bade us a respectful good night. C - and I said our prayers and went to bed on a mattress that seemed as hard as the floor. But before we went to sleep the boys paid us another visit and renewed the serenade. They were just getting limbered up. The violin shrieked even louder than before. The boys emphasized their dance by smashing the chairs and breaking the unused bed- tion-Philo, A. W. Newlin; Clio, T. R.

stead. Again they retreated. We had had enough of music (?) for that night, so we tried to barricade the door-we had no key to lock it. It was no use. They burst in upon us again. This time they had a bottle of whiskey. They wanted to give the "new fellow" a taste of Normal life. When we both refused to drink they hauled our bed out of its corner and proceeded to pour it into C-, but the bed-clothes got more of it than C-- did. They kept up the serenade for a large part of the night.

The next morning K-, the violinist, came in to set things right. He had a private key to the chapel. He took all the broken chairs into the chapel and exchanged them for good ones. The chambermaid reported next morning that she smelled whiskey in the "new student's" room. I went to the principal the next day and begged the privilege of hunting a boarding place down town. It was granted, and I was soon safely domiciled at "Uncle Tommy Johnson's" on Second street, where I spent one of the happiest terms of my school life.

I was not favorably impressed with my first night of Normal life, but when I entered the classes and met my teachers the next day I liked it better. The faculty consisted of Dr. Ehrenfeld, Prof. G. G. Hertzog, Mrs. Smythe, Miss Mc-Calmont and Miss Oakley.

Wednesday afternoon was given up to the literary societies. I somehow dropped into the Philo society. It had been organized a few months before by Fulton Phillips. I remember very well my feeling of disgust when I entered the room. the room over the reading room. The furniture consisted of an old school desk and a number of the chapel chairs. No earpet, no curtains, no pictures, no organ, no nothing but a good lively set of boys and girls. But we had a number one society. If the modern Philos do as much good, solid literary work as we did they are doing well. I soon became an ardent Philo. My zeal in her interests was all-consuming. Lessons were a good thing, but they had to stand aside for society interests. In those days we performed at every session; often twice at a session. It was during this term that the first copy of the Philomathean Galaxy was published. The first regufollowing persons were the contestants: of news. I cannot forget the happy days Kate McCalmont. Reading-Philo, Sue | go over them all again. Ammons; Clio, Anna B. Willson. Ora-

Wakefield. Debate-Philo, S. S. Patterson; Clio, A. B. Cope. The contest was close; but great was the rejoicing in OUR ranks when the Philos came out a little ahead. Let me say that the practice gained in literary society has been of incalculable benefit to me ever since.

It was during this spring term of '75 that the first shade trees were planted on the campus. One Thursday afternoon was given to us as a half-holiday, providing we would spend the time in setting out trees. We boys worked very lustily while the girls and lady teachers looked on and applauded. Many of the trees and shrubbery that now adorn the campus were planted that April afternoon. I am glad to learn of the continued prosperity of the Normal.

Very truly yours.

A. W. NEWLIN.

Elder Bruff, of Uniontown, was a visitor at morning chapel recently. He gave an interesting talk to the students.

Rev. Leroy Lewellen, of Allegheny, Pa., preached in Elwood's Hall, Charleroi, Sunday and Sunday evening, Feb. 7, in the absence of the pastor. He was the guest of Miss Carrie E. Wilson, being her classmate in the class of '85, at the California Normal. The sermon was good and the afternoon talk to the children interesting and instructive.

R. C. Crowthers, the faithful secretary of the Pittsburgh Coal Exchange since its organization in April last, and river editor of the Post, has resigned both positions. He has accepted a position with the Lysle coal company at a much hetter salary, and will leave next week to take charge of that company's interests at Cincinnati. While here, Mr. Crowthers has been very successful and has hosts of friends among newspaper and river men who wish him good fortune in his new work .- Pittsburg Post.

Letters like the following, from a graduate of the class of '82, now practicing medicine in Toledo, O., are always welcome:

Enclosed find 50c. for the REVIEW for one year. Having been successful in this city in my profession, I feel that 50c. is nothing and the REVIEW is everything, a real letter, as it were, coming directly lar contest between the societies was held from home, and that to get along withthis term. If I remember rightly the out it would be to live without the best Recitation-Philo, Maud Early; Clio, | spent at the Normal, and would love to

Yours very truly,

E. E. SCOTT.