

Fixings



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Ibigh School Register. OMAHA, NEB., NOVEMBER, 1896. VOL. XI. THE REGISTER Editorial. THE REGISTER is a monthly journal published on the last Thursday of each month from September to June, in the interest of the Omeha High School. BUBSORIPTION: Fifty cents in advance; by mail, sixty conts. Commencement Number, 10 cents. STAFF: LEWIS B. REED Editor-in-Chief. GERTRUDE WATERMAN ASSOCIATE EDITOR. MISS C. M. ARNOLD ALUMNI EDITOR. CLASS EDITORS: FRANK MOBSMAN, '97. MABY CHAPMAN, '97, CARL HEINRICH. '93. DOROTHY YOUNG, '98. GLEN WHARTON, '99, ANNA WHITE, '99, WILL WOOD, 1900, AUGUSTA YATES, 1900. CHESTER B. SUMNER - Business Manager, Entered as second class matter in the Omaha P. O. CALENDAR. OMAHA HIGH SCHOOL. Number of Teachers Number of Students CLASS OF NINETY-SEVEN. George Morton President Ella Grawford Vico President Mabel Gordon Secretary Traesure tained. CLASS OF NINELY-EIGHT. Laura Humer CLASS OF NINETY-NINE. Charles Merdis President Eleanor Gregg Тгеавител -----CLASS OF NINETESN HUNDRED. Miles Houck President Vice-President Both Dyer Treasurer ATHLETIC ASSOCIATION. Harry Tukey. Manager Lewis B. Reed. CADET OFFICERS CLUB. CAPT. WAGNER CAPT. TUKET Manager Vice-President ADJ. (LABKE Q. M. WIGTON Becrotary

ON ACCOUNT of the unusually heavy work the teachers have been forced to do this year, it has been impossible, up to this time, to begin Rhetoricals, but now plans for them have at last been made. It is not possible to have the gatherings this year in the Senior study room during school hours, as has always been the case, unless a way for that be found later, since there is no means of disposing of the pupils there at that time. But each English class or division will have its own programs during its own recitation period; then, from these division programs will be chosen by the pupils, those who best represent the work of the class, these chosen ones to be put on for general meetings held in room 31 after school. This arrangement is not altogether a disadvantage, for by thus sifting out the best for the general programs, better public work will be ob-

NO. 3.

AGAIN Thanksgiving Day rolls around and we commence to have visions of large, appetizing turkeys, with cranberry sauce, and large indigestible mince pies. The small boy grows jubilant as the time draws near and again his eyes are in danger of becoming larger than his stomach. The turkey, poor bird, trembles in his boots, so to speak, and contemplates doping himself with antifat. We shall soon see the familiar pictures in the papers of the farmer, ax in hand, in the act of sacrificing the plump

gobbler. We wish all our readers, especially our subscribers, a happy Thanksgiving. May they celebrate, one and all, by unusually fine dinners, among other ways, and may they not suffer any uncomfortable consequences. The Monday after our short vacation may we see all back at school again, and of course they will be looking forward immediately not to the Christmas vacation, but needless to say, to resuming their studies and labors at school. Let no facetious reader dare to insinuate that we are not perfectly sincere in this.

OF LATE the crusade against the cigarette, and for that matter the smoking habit as a whole, has been started afresh. chiefly in the schools. The newspapers have taken up the subject and interest has been aroused generally. A plan has been arranged to have boys sign the pledge and it is hoped that an unusually strong movement will be made against the evil. If that "horrible"(?) game of foot-ball has slain its thousands, the cigarette has slain its tens of thousands. Much ado is made by fond parents and timid friends over blackened eyes, bruised shins, and scratched faces, but what about the danger of this tobacco habit, which has gained such a hold? Its visible effects are seen in the livid skin, the shaking hand and the nervous cough, these are the results physically; but the boy who smokes is certainly handicapped for life by the sluggish intellect and dulled moral perception, as well. He might much better have a broken bone or two. The harm resulting from the habit has been discanted upon so much that of course we are not intending to give information when referring to it. The smokers themselves realize it as well as any one, and the continuing in the habit is as often as anything the result of a mind too weak

to resist, or to leave off when once started. The worst phase of it all is the contracting of the habit by boys only seven or eight years of age, but this, of course, we do not see in the High School. To return to our parallel between cigarette smoking and foot-ball playing, painful and fatal accidents occur in every walk of life, but as between the harm from the large, round, leather-covered instrument, and the small, round, papercovered engine of destruction there is no chance for argument.

MORE especially since the news of the death of Doane's quarterback as a result of injuries received in a foot-ball game, the hue and cry concerning the danger and brutality of the game has become Those who know nothing louder. about the subject, but only keep on the lookout to hear of some injury from foot-ball so as to take it up and continue the tirade against the game have become more firm in their opposition. Walter Camp, who probably knows as much about American foot-ball as any one yet heard from, has gathered testimony from people all over the country and has published several books on the subject; and looking over the immense number of letters from colleges, from presidents, professors and players, will do as much to convince one of the right side of the question as any other available means. Of course it is not necessary to say anything regarding the physical effects of the game; every one will acknowledge that it is the best form of bodily exercise. More especially is it superior, on account of the all-around effect it produces. So many popular games and sports tend to develop only a certain set of muscles, while foot-ball develops more thoroughly than any other. It has been well said that foot-ball is the Greek Pentathlon revived and combined

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in one sport. Then in reference to injuries, the great mistake, made by nearly every one in this respect, is that they take into account merely the number of injuries without considering the number in proportion to the thousands that play the game. A foot-ball accident is taken up, spread abroad and made much of to a ridiculous extent. How many serious injuries have not resulted from such amusements as base-ball, swimming, shooting, cricket, coasting, lacrosse and others? The prejudice against the game is nearly always because of a narrow, unreasoning view of the subject. Then, as to the benefits mentally, foot-ball is far ahead of any other game. It tends to cultivate the qualities of self-control, courage, self-reliance, mental concentration, watchfulness and obedience. We have not the space here to explain just how each of these qualities is brought out, but it is certain that each is, in the highest degree, and the benefit of them is not questioned. The President of Lafavette College has said: "College athletics, and especially foot-ball, have done more to purify, dignify and elevate college life than any other single influence in the last quarter of a century."

"And you say the hailstones were as large as hens eggs?"

"No," said the cautious person, "they were not quite that. They were, say, about the size of boarding-house cantaloupes."—Indianapolis Journal.

Tomdix—Where are you going to send your son to school?

Howso—To some good agricultural college.

Tomdix—Why an agricultural college? Howso—I take it that an agricultural college possesses superior facilities for sowing wild oats.—Washington Times.



THE ROLE OF MICROBES IN SOCIETY.

The Revue Scientifique publishes an address upon this subject, before the Society of Anthropology, in Paris, by M. L. Capitan.

Onoting from an address before the same society by the distinguished scientist Broca, he speaks of the gradual overcrowding of our planet, and of death as necessary to make room for coming generations. After showing that the decomposition of dead matter is also necessary to this preparation for new life, and that the process is the work of microbes, M. Capitan thus continues: "Microbes have an important role in digestion. Ordinary digestion takes place in the stomach and intestines by means of soluble ferments secreted by organic cells. which attack the foods, separate them, and make them fit to be assimilated; it is work similar to that of microbes. But the digestive tract contains great quantities of microbes constantly brought in by food. They multiply indefinitely, and play most complex roles. They necessarily take part in the digestive phenomena, as aids in the breaking up of organic compounds, and, again, they are the only effective agents to that end. M. Duclaux, insisting upon this point, says that certain kinds of cellulose can be attacked by microbes only: no organic juices have that power. M. Pasteur cannot conceive of the possibility of digestion where microbes do not exist.

The purely chemical work of the microbe is enormous. What we know about it is nothing in comparison with what it must be. Every kind of microbe, every race, every variety, is charged with a special function; the divisions of

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labor is pushed to the extreme limits, so that for any chemical reaction whatever to be realized, the microbe makes several attacks. Each variety takes part in the work, beginning a partial separation of the matter, which is completed by another kind, and this goes on until the organic matter is reduced to its elementary constituents, or to a state of sufficient simplicity for the plant to assimilate it.

Further, as old as the world, contemporary with the first generations of vegetables, the microbes have contributed materially to the constitution and formation of the geological strata. Microbes made the peat which later became coal; they had their part in the complex work of precipitation which made the great beds of calcareous deposits; they played their part in the complex reactions which resulted in the deposits of sulphur, iron and many of the other metals.

Industrially, the chemical work of microbes is often utilized by man. Two typical examples may be given. First in the preparation of indigo. It is obtained from a wood cultivated in India, Japan and Central America. This plant contains a sugar, indiglucine, which is removed by washing with warm water; this indiglucine is then submitted to special fermentation. The microbe separates into indigotine and sucrose. The indigotine, which is white, is oxidized by the reaction due to the microbe, and is changed into indigo, with its blue color. And this preparation would be impossible without these peculiar reactions produced by microbes.

Again, the chemical action of microbes is illustrated in the preparation of opium to smoke. But it is especially in the preparation of many of the most indispensable foods that certain *micro*organisms, thus domesticated (*i. e.*, in the preparation, Tran.,) show themselves incomparable chemists. Without them these different preparations would be impossible. Such is the case with bread, alcohol, wine, beer, and the different milk ferments (koumiss, kephyr,) cheese, sauer-kraut, etc.

I cannot show you in detail the part which the *micro-organisms* have in the elaboration of each of these products. Besides, you all know what characterizes bread. Yeast is the principal agent in the fermentation. There are milk ferments, and many other kinds of microbes. For alcohol, wine and beer, there are the different kinds of yeast, with the addition of various microbes and their numerous diastases, which, as the case may be, separate the molecules of starch and change them progressively, by successive separations, into dextrine, glucose and finally into alcohol: or again, change sugar into alcohol, or even, separating from the malt, make alcohol, and finally make the complex products, wine, brandy and beer. . . . I have spoken thus at length about microbes and I have not vet presented them to you. They are, as you know, very inferior algæ formed of one cell, generally with an envelope. They live almost everywhere upon and in living creatures, in the soil, water, upon solids, etc., multiplying with extreme rapidity. They have very varied actions, often useful, as you have seen, or, on the contrary, hurtful, as you will soon see.

Sometimes they take a rounded form, are little spheres with a diameter of about a half a thousandth of a millimeter. Sometimes they are isolated, and, again, they are in strings composed of a more or less considerable number of grains. They may present themselves in the form of little sticks from a half to one or two thousandths of a millimeter in diameter with a very variable length, thus forming, sometimes, short sticks (tuber-

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culose), sometimes long threads (charcoal *en culture*). The little sticks are immovable, or, on the contrary, movable, rigid or curved. 'They may take the form of a half circle, as in the cholera microbe, or they may present themselves in a spiral form, as the microbes of intermittent fever.

They generally color easily with the aniline colors. Finally, when they are placed in a medium suitable for their culture, such as boullion, peptonized gelatine or solidified blood serum, they multiply in great abundance. These elementary facts give you a general idea of the morphology and biology of microbes. You know them now. I have shown you how they may be useful in society. Now let us see how they are harmful.

If microbes decompose dead matter, they may also decompose living matter! Certain kinds especially have the power which is called *virulence*. They are called *pathogenes*, that is to say, they may determine the diseases. Every kind of microbe, moreover, produces a special kind of disease and has a power which varies much, according to a number of circumstances.

But the microbe cannot *alone* make the disease; the intervention of the organism of the subject in whom the disease is to develop is necessary. If you please, following the forcible comparison of Professor Bouchard, the organism is a stronghold, the microbe is the assailant, the struggle between the two is the infections disease.

Thus the condition of the organic domain, which the microbe seeks to invade, is important. In fact, if the person is very well, he offers a great resistance to microbes. If, on the contrary, his health is not perfect, it is a stronghold poorly defended, and the danger is great for him. For, as M. Bouchard has said for a long time, a person does not become ill, except when he is already not in very good health. But there are many means for getting into bad health. One may change his health by a number of processes, which may be summed up, essentially, in two grand classes: Troubles of organic functions and disorders of tissues. Many of the processes leading to the production and development of disease are directly dependent upon various social influences. Do you wish some examples?

Wealth, like poverty, is a powerful agent in disease. The rich man, from his frequent overeating, his want of exercise, his excess of comfort, easily acquires obesity, the gout or diabetes; his kidneys, his heart, are frequently affected. The poor man, on the other hand, from want in its different forms, from overwork.exposure to inclement weather. or want of cleanliness, may suffer from various derangements of the internal organs, the lungs, the liver, the kidneys, the bowels, etc. He has, like rich men, a special pathology in certain points and very different from the last; a pathology, moreover, due absolutely to his social condition.

The occupations create also special diseases. They may poison those who engage in them. Lead produces chronic poisoning among those who handle it (painters, printers, manufacturers of white lead); it is the same with mercury (silverers of looking glasses, gilders, hatters). Every poison produces its special effect upon the system: lead upon the kidneys, the intestines, the brain, and mercury upon the brain and the nerves. These examples might be multiplied; they show the occupation may affect the organs, create actual diseases, or induce such a state of health as to facilitate the invasion of the microbe. Is it necessary to mention that dreadful;

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form of poisoning, alcoholism, which produces its effect upon the kidneys, heart, liver, brain; alters all the internal organs and thus prepares the way for disease-producing microbes?

All the natural cavities of the body opening exteriorly (the nose, mouth, alimentary canal) are filled with microbes that come from without, borne by the air or foods, and subsequently multiplying. There are even some for the skin. In the midst of these, there are others which are the remains of previous infectious diseases which have attacked the subject actually cured.

All microbes, in a normal state, live a latent life, often useful, as we have seen for digestion, most often inoffensive, thanks to the resistance of the cellular lining of the organic cavities, thanks to the activity of the white globules, zealous defenders of the organism, thanks to the chemical action of organic liquids. But when various circumstances, external conditions, or internal ones, modify these elements of defense, alter the texture of linings (as in the case of poisoning from the occupation), or when one or more of the microbes take a sudden virulence, then the barriers of protection are broken, the microbe enters into the interior of the tissues, and may determine the greatest variety of diseases. from pneumonia to erysipelas, meningitis or an abscess in the liver.

The microbes which live outside the organism have equally diverse origin. We have spoken already of the innumerable varieties living in the soil, the water, and on plants which play such numerous and important roles. Certain ones may, under the right conditions, take on a disease-producing power, and determine a disease, but there are others which, disease-producing by profession, have been eliminated from diseased organisms, and instead of having suc-

cumbed have fallen into the outer world, have adapted themselves to new places and live another life, it may be in the earth or in water. They are all ready, when introduced by food, or by respiration, to penetrate anew, into a living organism, to develop there, if the circumstances are favorable, the disease which they characterize, such as is the case with the *vibrion* of cholera or the bacillus of lockjaw.

To these innumerable special causes of infectious diseases, the invasion of microbes and their development in the organism, hygiene may oppose numerous means of protection or of defense. This is the role of prophylactics. On the other hand, medicine may aid the system in struggling victoriously against the microbe: this is the role of therapeutics. But upon these two points the social influences have an important bearing: the place in society of the patient may modify profoundly these preventive measures and make them effective or insufficient, according to circumstances. . . . You see, then, though I have given only a simple outline of it, that the role of microbes in society is immense.

Bad or good, burtful or useful, all have a role which is, on the whole, indispensable to the regular evolution of society. And however paradoxical that assertion may at first have seemed, I believe I have given you a clear demonstration, and in closing, I may formulate it thus: Society could not exist, it could not live or subsist, except by the constant intervention of microbes, the great carriers of death, but also distributors of matter, and thus the all-powerful carriers of life.

We love much more warmly when we are looking forward to make somebody happy than we do half an hour after, when we have done it.

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NATURAL GAS.

By PROF. EDWARD ORTON, LL. D., Professor of Geology in the Ohio State University. Within the last twenty years natural gas has been introduced in the large way into a few centers of population in the country, there to be used as household fuel, in producing steam, in manufacturing glass, in working iron and steel, and in various other industries. Its introduction has brought immense advantage to the communities that have been fortunate enough to secure it, and unquestionably constitutes the most striking advance of the last twenty-five years in our utilization of the mineral wealth of the world.

What is natural gas? It is essentially light carburetted hydrogen, one of the common products of decaying vegetation. It is the same gas that is known in coal mines as "fire-damp," but the great supplies now in use are directly derived from petroleum.

How does it occur in the crust of the earth? It is found stored, at various depths, in porous or water-bearing rocks. such as sandstone, conglomerate, and certain forms of dolomitic limestone. What holds it there? The rocks forming the reservoir are always directly overlaid by an impervious stratum of closegrained shale. The depths from which all the great supplies are derived range between five hundred and twenty-five hundred feet. Two other substances invariably share with it the possession of the permeable rock; viz., petrolenm and water. The latter is generally saline to a high degree, and occupies the great bulk of the stratum, of which an insignificant portion is sufficient for the oil and gas.

A particular structure or arrangement of the strata in which the reservoir rocks are included is found in all gas-fields. The strata have been bent into low

arches, arches so gentle that they have not been fractured at their crowns in the process of bending. This structure is essential to the separation of the threefold contents of the porous rock. Under these conditions, the gas will seek the highest portions of the arch, while the oil and water will be found at lower levels.

Inasmuch as the porous rocks somewhere rise to the surface, their outcrops must receive a share of the supply of surface water. In this way a connection is established with the salt water in the deep-lying portions of the rocks, and the necessary conditions are thus supplied for the rise of salt water in wells that are drilled to its levels. The limits of every field of gas and oil are established by lines of salt water wells.

Among the most important facts pertaining to natural gas is the pressure under which it is found when reached by the drill. In all gas-fields that warrant utilization this pressure ranges between one hundred and one thousand pounds to the square inch. It is generally between two hundred and five hundred pounds. Whenever it approaches five hundred pounds; it gives rise, when the reservoir is penetrated, to some of the most startling phenomena in the whole range of mining engineering. The gas rushes out from the well with the velocity of a cannon ball and with a roar like that of Niagara. Now and then a well is struck that discharges twenty-five or thirty million cubic feet of gas in twentyfour hours; what are callled fair or good wells produce one to eight million feet a day. It is the pressure that sends the gas from the fields where it is produced, through lines of iron or steel pipes, twenty, thirty, fifty, or even one hundred, miles, to the cities that are to be supplied. When the gas reaches its destination, the pressure is cut down by

regulating values to any required figure.

What is the cause of this pressure? The facts already stated carry, at least by implication, one of the explanations. and, I believe, the true one, of the amazing phenomena. It is the artesian pressure of the salt water on the oil and gas, compressing the latter in the summit of the arch of the reservoir rock. The amount of the compression will be determined by the height of the column of water that lies against it.

When the gas reaches its destination, to what use is it applied? The more important uses have already been incidentally named, but the question can be answered by a single word, viz., fuel. Natural gas is the perfect, the ideal, fuel. a saving of machinery and what in-When burned by means of the best appliances, it gives no smoke, soot, or odor: and of course a fire fed by gas is free from ashes and dust. Besides these advantages it possesses extraordinary heating power, twenty-five thousand feet of gas being the equivalent of one ton of Pittsburg coal. The daily product of a well that yields twenty-five million cubic feet is equal to one thousand tons of coal. To transport such an amount of coal would require fifty freight cars and at least two engines. The gas transports itself.

It is in the capacity of domestic fuel that natural gas undoubtedly renders its highest service, doing here the greatest good to the greatest number. The advantages that it brings to the housekeeper are indescribable. Think of a kitchen fire, lighted with a match, at full efficiency the instant it is lighted. held steady at a required temperature as long as it is wanted. Think of a fire in a grate, as bright and cheerful as a fire of hickory wood when at its best, kindled and extinguished as easily as a gas jet or an arc light. Think of a furnace fire that never needs a thought, day or night,

from one week to another, except as a change of temperature suggests a little more or a little less heat, the needful. regulation being effected by a valve in the sitting room. An invalid, if only able to sit up, can take the whole care of the furnace,

So perfectly is gas adapted to all these lines of service that it ought never to have been applied to any other, but it is obvious that the advantages already named would bring similar advantages for other uses of fuel.

For producing steam, especially, it is easy to see how admirable such a fuel would be. What a saving of labor on the part of fireman and engineer! What creased efficiency through the steady supply of heat!

From the production of steam to the direct application in the mineral-working industries the transition is natural, but here there is no use of natural gas that is not an abuse. To turn this ideal fuel to coarse and common uses is a prostitution of one of the best gifts of nature. But if there is any manufacturing use for which gas could be granted it would be glass making. To every stage of this beautiful industry it is so happily adapted that one cannot help wishing that the supply was equal to this demand.

The most vandal-like and thoroughly reprehensible applications of it are to the manufacture of iron and steel, to lime burning and brick making. All these industries consume enormous amounts of gas, and bring speedy exhaustion to any gas-field to which, like vampires, they attach themselves. ' An average rolling-mill requires from three to five million feet a day; an average glasshouse requires about fifty thousand feet a day; a steam boilor uses less than one thousand feet a day for each horse power

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in the machinery that it drives: a comfortable home with a furnace, kitchen range, and three or four grates occasionally used, will require from two thousand to three thousand feet a day. A rolling mill consumes the fuel that would supply a thousand such bomes with the unspeakable luxury of gaseous fuel.

From the drift of the last few sentences the reader will infer that the supply of natural gas is not unlimited. This inference is fully warranted. All the facts of our experience go to show that natural gas is stored in definite amount in the reservoir rocks. Vast periods of time have been used in its accumulation; and, when the stock is once exhausted, it will never again be renewed.

The geologists of the country cannot take credit to themselves for foreseeing the wonderful developments in this field, but since the introduction of natural gas their counsel has been sound and emphatic. Early and late, they have warned the communities that "have found gas" that the supply was sharply restricted, that exhaustion would follow waste and use as certainly as night follows day, that the entire stock ought to be reserved for household service. These warnings have been unpopular, and have brought upon their authors the maledictions of the speculators that throng to every new gas-field, but experience is certifying to their soundness and timeliness more promptly than could have been expected, except in the newest fields. Natural gas is being withdrawn from all manufacturing uses as rapidly as existing coutracts will permit, and even the domestic supply is giving out in many districts in which the original stock would have been ample for this use for at least a jung interest in the French work. Everyquarter of a century.

. It is a lasting reproach to the intelligence and public spirit of the communi- ing a success as the first.

ties that have found gas available in large amount that they have wasted and misused this precious form of stored nower in so wanton and reckless a way. But it is never too late to mend. If they will reform their practice even now, the last days of natural gas may be its best davs.



At the meeting of the Class of '99, a very pleasant program was rendered. Fred Cuscaden, Miss White and Miss Paulsen each gave good musical selections and several recitations were enjoyed by the class.

Ever since the Freshman year the Class of '97 has had a mandolin and guitar club. Of course '97, when it knows it has "a good thing," doesn't fail to "push it along," and this year is no exception in respect to the usual club. Irons, Whinnery and Wigton will playmandolins and Leonard, Lehmer and Morsman guitars. Then, last but not least, is the new feature in the club, Lyman and his violin.

The French pupils of the High Schoo met in room 25 on Wednesday, Nov. 11 at the invitation of the "Cercle Francais," to enjoy a charming program arranged by that organization for the occasion. The chief feature of the meeting was the singing, in unison, of the "Marseillaise," all the pieces being prepared with reference to that national song. This was the first of what is to be a long list of delightful entertainments given by the club, for the purpose of promotthing is to be entirely "en Francais," and it is to be hoped all will be as pleas-



COUNCIL BLUFFS VICTOBIOUS-12-0.

Place and date, University Park, Oct. 31. Touchdowns—-Council Bluffs, 2. Goals kicked, 2. Referee, Pixley; Umpire, Hess; Linesman, Treynor.

NOTES.

With a badly crippled team the Omaha igh School was "trun down" Saturtackle. UN Oct. 31, by the Council Bluffs stur-

Lehmer was not in condition to play, and had to leave the field.

Schwartz played a great game, and took Lehmer's place at half.

Gillespie, as usual, made some grand stand tackles, and played well.

Hopkins had his left arm dislocated at the elbow, and was compelled to retire.

McKell, the morning before the game, had an accident that prevented his playing. He stepped on a nail, and was out of school for several days.

Council Bluffs' great improvement was due chiefly to the coaching of Dick Stewart. He is not a bona fide High School student, but was allowed to play in the game.

DEFEATED AT LINCOLN-12-0.

The O. H. S. boys were defeated at Lincoln, Saturday, Nov. 7th, by the Lincoln High School, in a fiercely fought game. Luck seemed to be against them from the start, and, although they were as tricky as their opponents, bucked and ran as well, and held the line even better than they, it resulted in nothing for them but a neat little sphere-o. It is awfully discouraging to be beaten in such a game as this was, and we all came home with our voices tucked away in our vest pockets. Lehmer put up a strong game until he was finally forced to retire, giving way to Schwartz. Several times Reed got up with a large fishy look about his eyes, wondering how it had been done. Crandall slid in and out of the line with ease, and the tackles did splendid playing on both offensive

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and defensive. Gillespie, at quarterback, proved an invaluable player on the defensive, a number of times dropping men who were pushing forward for touchdowns. The ends did well at times, but were not as fast as they might have been in getting down on kicks. The guards were a bit slow, and must be livened up if we hope to retrieve our lost laurels. Field, at center, was very good. It will always remain a mystery in the minds of those who witnessed this contest, especially the participants from Omaha, how it was we failed to score. Curious things do happen, sometimes twice in succession.(?) Lincoln made a touchdown twice, easily kicking two goals.

The line-up:

 0. H. S.
 L. A. S.

 Schwarz (Fowler) R. End
 Beckman

 Morrison
 Right tackle
 Trestor

 Morrison
 Right tackle
 Trestor

 Fradenbarg (Hutchinson) R. guard
 Ringer

 Field
 Center
 Tyson

 Jensen
 Left guard
 Westover

 Tukey
 Left end
 Prey

 Gillespie
 Quarter back
 Ryan

 Crandall
 Right half back
 Kier

 Lehmer (Schwartz) L. half back
 Smith

 Place and date--M Street Park, Lincoln,
 Nov. 7th.

 Touchdowns, Lincoln 2; goals kicked, 2.
 2

Time-Two 25 minute halves. Referee-Camerou.

NOTES.

Wasn't that Lincoln manager funny? Gillespie's new play--- "a fake pass." What a "lovely" lunch we all had at the Palace!

Ask Reed if he often punts through the line that way.

Everybody thought the reception was fine, although all were rather tired.

At the V. M. C. A. Building most of the boys went in to a short noon-day service in the chapel.

The boys enjoyed the shower baths at the V. M. C. A. after the game. There was a fine cold plunge, too.

Of course McKell was late to the train and came down afterwards with Hopkins, arriving about half-past eleven.

The boys were presented with a large cocoanut cake to eat on the way back to Omaha. Rather bad for foot ball players, but it was eaten.

The foot ball team is thinking of turning into a glee club for the rest of the season. Some fine singing was done on the train coming back from Lincoln.

Crawford did all he possibly could for the eleven at Lincoln, during the game and between the halves. He considers the team did nobly, and attributes our loss to Lincoln's luck.

Lew Reed and Mac Morrison stayed over night at the Lincoln, and in the Sunday Journal it announced that "Lewis Reed and May Morrison of Omaha, are registered at the Liucoln."

The foctball team was tendered a delightful reception by the Lincoln High School on the evening of the game. Most of those who went down with the team were also present, a few returning the same night, however.

HIGH SCHOOL VS. THURSTON RIFLES.

The school eleven wandered out to the University Park to play foot ball with the Rifles, but discovering that aggregation's inability in that line, played horse with them instead. The Rifles got possession of the ball once, but did not know what to do with it, so relinquished it and watched our boys run around the field with it. Thurstons kicked off to Stubby Crandall who brought it back to the twenty-five-vard line; then began the Waterloo of the Thirstys, scarcely was the ball swapped when the school team seemed to vanish in smoke, and the bewildered Rifles would probably be standing there with months open yet, had not one of them

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High School was "trun down" Saturday, Oct. 31, by the Council Bluffs students. The playing of the latter was wonderfully improved over that shown in the other game with us when we defeated them, and one could hardly be blamed for the escapement of a cheer now and then. Still, the home eleven cannot be excused on the plea of their condition. By condition is not meant the disablement of McKell, nor the unavoidable injury of Hopkins, but the general lack of team work that was plainly visible in their loose playing at critical times. This lack of team work, or in other words, practice, lost a game that should have been ours. The loss of Captain McKell cast a damper on the rest of the team, as did that of Hughes, and the retirement of Hopkins. Lehmer's condition also weakened the eleven a great deal. The line was a bit shaky, and gave way repeatedly before the nervy plunges of the Bluffs backs. However, we did not present the game to them on a silver server, and twice during the play were we within fifteen yards of a touchdown; bnt Council Bluffs took a brace, and although we nearly hammered the life out of their line, our score in each case seemed to sit up on the goal post and mock our efforts.

The winning team made both of its touchdowns in the last half.

Here is the order of line-up:

о. н. s. —	POSITION	с. в. н. s.
Hopkins (Hut	chinson) R. End.	Hutchiusor
Morrison	Right tackle	Kuo2
Griffith	Right Guard.	W. Dailey
Field	Center	
Jensen	Left Guard	
Tukey	Left Tackle	, Audersor
	denburg) L End	
Gillespie	Quarter back	R. Dailey
Crandall	Right Half Bac	k W. Pardey
Lehmer (Schy	wartz) Left Half B	ack Stewar
Reed.	Full Back	Mathe

happened to look around and beheld their quodam apponents almost out of sight in the distance. Lehmer kicked goals as though that was his sole mission on earth, and scores piled up so fast that they could hardly count them. Stubby would start out on an end run and just as the Thirsty crowd would rush in to embrace him, Schwartz would be discovered sailing serenely down the field with the ball tucked under his wing and his raven locks streaming far behind him. Even when the ball was fumbled and Tukey nabbed it and crept down the field for twenty-five vards the weary Rifles took it for another trick and didn't even grumble. Crandall tried for a goal from the field, but one of the Rifles unconsciously got in the way and spoiled his aim. The final score was 42 to o. The touch downs were three for Lehmer, two for Reed and one a piece for Crandall and Schwarz. They were easy enough to make, all that was necessary was to have the ball.

They say that Nielsen had his eye on the girls at Lincoln.

It seemed as though more teachers went to the Council Bluffs game, our first defeat, than ever go in a whole season otherwise.

Every one kept asking: "Where are those girls that were coming down to Lincoln to see the game? We would have won if they had only come with us."

Spafford had an enjoyable time at Lincoln. He liked it so well that he staid over and took a later train than the rest of the team. Not entirely of his own accord, however.

Some of the boys that watched the team practicing a few of their new trick plays, got so bewildered and confused they couldn't tell whether they were standing on their heads or their feet, or where they were at.

The loss of Captain McKell is keenly felt by the foot ball team. He has stopped school and gone to work, and it seems strange not to see his long, familiar form at left end. This was his third year at that position and he could certainly fill it as well as any one in school or in this city. Lehmer was elected captain in his place.

A Thanksglving Hymn.

Little Willie from the hour tif his birth displayed the power. Without effort, to devour Everything that came in sight. And his heart did fiap with pleasure As he, with his see, did measure The great, fat Thatksgiving treasure That his dad brought home one night.

Willie went right into training --For almost a wock abstaining From all articles pertaining To the feeding of his face. Round the table he did linger, Tasting viands with his finger, And twas with a glorious hunger That at last be took his place.

Then he started gormandizing, In a manner quite surprising, And his weistcost was capsizing Ere ne rested from his toil. Bot as the day was dying, Little Willie started sighing, For the bird within him lying Hong heavy on his—soul.

Wearily to bed he started, If celling very chicken-hearted, For his dinner had imparted Quito an aspect of plarm, And, as restlessly he slumbered. His mind seemed much encumbered With fantastic spocks unwitmbered That forotal the coming storm.

Suddonly a shrick he uttarod, For from up above there fluttered, And sat and grinned and sputtered, A hage turkey on his breast. There he percled and blinked and gobbled, And all o'ar his chest he hobbled, And his wattles flopped and wobbled, As he shock his gory crest.

But poor Willie lay and panted. While the turkey o'er him ranted And with dreadful voice discanted On his great desire to dine. "Now I've got you, you young sinner And I'll eat you for my dinnee." And he stack his taloned finger. Bight straight through to Willie's spine.

Little Willie has grown wiser, He is not a gormandizer. And he shudders at mince pics, or Anything that makes him sick. And he now takes Hood's Sarsaparilla, Bromo-Seltzer. Comomilla, Ur whaterer tonic will a-Ssanga his feeling dys-peptic.

THE HIGH SCHOOL REGISTER.



"By order of Lieut. Penn."-Clarke. Capt. Tukey has had his hair cut. Hoorah!

What has become of the noon hour drill team?

Who saw Egbert drilling in the smallest four of Co. C?

Some privates will soon be very well acquainted with Lieut. Clement.

"Right forward, fours left!" has been heard again on the drill grounds.

First Sergeant Carter is the rustler for your life. He's hard on absentees.

There are still a few boys who ought to be drilling. We'll get them soon.

Capt. Thurston has recovered from his sickness(?) and is attending school again.

Say, but the committee is planning a nice musicale for the Cadet Officers' Club!

Lieut. Vates forgot he wasn't drilling the company the other day in platoon drill.

Wasn't that a hot Battalion parade though? If Lieut. Penn could have seen us, what then?

We haven't seen Ex-Senior Captain Connell up here for some little time. Don't forget us, Ralph.

Who is the smallest officer in the club, does any one know? Who is the smallest man in the Battalion?

Ex-Captain Egbert. Co. C, was up looking over the boys one day last week. He thinks they are all doing well.

Lieutenants Beans, Lehmer and Yates have been advanced to First Lieutenants of Co.'s E, D and C, respectively. Lieut. Clement is still waiting for you to get your uniform. Hurry up, boys, let's get a good start in company drill.

'Tis said that Lieut. Doane, Co. C, forgot he was a Lieutenant the other day in open ranks. Wake up, Georgie.

Why don't somebody write some "Squibs" on Battalion, and hand them to Wagner? He'll appreciate their kindness.

A part of Co. B has been compelled to drill in the basement and has shown that they can break windows if they can't do anything else.

Sgt. Morsman has proven himself to be a model pacemaker for a company, but he must be careful not to anticipate any more commands in the future.

Capt. Wagner has set an example and keeps his Cadet uniform at school. If you have any lockers to rent, Ray, I think there are some that would take them.

Capt. Tukey, with the able assistance of his officers, is making Co. E one of the best companies of the Battalion? If they only had uniforms, wouldn't they set a fast pace.

"Either play foot-ball or drill," is the notice seen hanging in the halls. That's a good thing. The foot-ball players will report to Q. M. Sgt. Engel, and must be excused by Captain Lehmer, or they are expected to be seen on the football field.

Within a few days the companies will be reformed, the uniformed boys being assigned to their proper company, and the un-uniformed boys going to Co. E. If you haven't as yet ordered a uniform, do it, if you expect to be counted in the uniform company.

All Cadets must understaud that the First Sergeants cannot excuse them. They must either go to their Captain or

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to Lieut. Clement. Whenever a Cadet is excused he must hand his excuse to the First Sergeant before drill or he will be marked absent without excuse.

The following promotions have been made: Sgt. Major Doane to be Lieutenant, Co. C; Sgt. Innes to be Lieutenant, Co. B; Sgt. Rood to be Lieutenant, Co. D; Sgt. Myers to be Lieutenant, Co. E; Private Knight to be Sergeant Major; Musician Cotton to be Drum Major; Private Lillie to be Sergeant, Co. A.

The drum corps this year will eclipse all former ones. An instructor from the Fort has been present during the last drill days, and has shown his efficiency in teaching the boys. The boys themselves now seem carnest to learn. With Ben. Cotton as Drum Major the corps ought to beat everything of its kind in the state.

Company Z is rapidly improving, every drill day making a difference. The girls themselves boast that they will soon be able to compete with the boys, and they intend to leave them far behind. Lieut. Clement has signified his willingness to drill the company himself now and then, and to criticise its faults, if there are any. The company will soon be supplied with Cadet caps.



Fred Teal, '94, was in Omaha during the day set apart for Mr. McKinley's election

Fred Van Horn, '93, came home from the University of Wisconsin to vote for the next president.

Miss Hattie Manger, '96, is the first girl of that class to be married. May she have all happiness and prosperity!

The Class of '96 held a committee meeting Saturday evening to plan a program for their Christmas gathering. After 'business was dispatched candy was pulled and a jolly time enjoyed.



The Argus, from Harrisburg, Pa., has several artistic column headings.

We are glad to receive the Dartmouth. It is always welcome.

The Purdue Exponent has a very good though rather bewildering front cover.

The Studentana is the only girls' paper on our Exchange List. It is well written.

The Epsilon is published by a Greek letter fraternity and is certainly well managed.

It is needless to say that the Advocate, from Lincoln High School, is welcome with us.

The Minute Man comes to us from Concord, Mass., with several unusually good articles.

The Polyglot, from Wilton College, Iowa, has a good article and several poems in German.

The Tattler, from Des Moines, has a very striking and artistic cover for the October number.

The Mercer Student, from Charleston, West Virginia, is good as far as it goes, but it doesn't go far.

We have received for the first time the Catholic High School Journal from Philadelphia. It is an interesting paper.

We would like to suggest to those that are so interested in reading our Exchanges, that they are left in the bookcase to be read, not to be kept.

We hope to see the Coe College Cosmas regularly among our Exchanges. It is a well-managed paper; our only criticism is the large ad, on half the first page.

We sympathize with the Tattler, from Ithaca, N. Y., concerning their delay on account of a printer busy with election ballots. We had exactly the same thing happen.

The Mirror, from Franklin Academy in this state, we think advertises the school a little more than necessary. in articles, etc., throughout. It gets monotonous.

Since our last issue we have received also, College Chips, from Luther College, Decorah, Ia.; Montelair High School Bulletin, from New Jersey, and The Silent Hoosier, from Indianapolis.

The Recorder, from Springfield High School, Mass., has a good serial story, each chapter by a different pupil, also articles by Alumni on the all important question "What College Shall I Choose?"



Oh, what a night! (We refer to election.)

Goodbye, Billy McKell, we're sorry to lose you.

W. J. B.—"Just tell them that you saw me."

F. M., in Senior Greek—"He sat down, rising up."

Heard in the 5th Hour History—"His maternal father."

Yates says he gets hot results in his heat experiments.

Miss M., in English—I corrected the sentence like thunder.

Oh, dear, yes! we all had our lessons the day after election.

Ninety-seven is getting impatient for class pins. Where are they?

An eighth wonder—Gillespie came to school several days in succession!

In Latin—Eo mulieres imposuerunt. "They imposed upon the women."

Some French pupils are cannibals. They will have "femme" for "faim."

What fun a cane-rush between '97 and '98 would be! (For '97.) Let's have it.

We are sorry for the silver boys at school. They are so meek and quiet now.

On the blackboard in the Latin room— Lost, two mirrors. Return to the boys of the Senior Physics class.

Now that cold weather is coming on we shall have no more of those big freefor-all fights on the grounds at noon h our

Teacher-Is this essay original?

Freshie—I suppose so, it said "original" over it, in the paper I took it from.

Some of the Juniors stole the keys to the lockers in the foot-ball dressing room. Verily, they are an enterprising lot!

Lillian Hellman, formerly '97, now in the Cincinnati High School, still takes the Omaha High School REGISTER. She is loyal.

We all know that the word Sophomore comes from two Greek words meaning "wise" and "fool " No comments necessary.

Gillespie and Engel are expert at breaking glass jars. They have some secret way of their own. Orders promptly attended to.

Seen on the ballots for our school election:

"MCkinley and Hoburt." "Bryan for never." "McKinley, nit."

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A Freshman once to Hades went, To see what he could learn; They sent him back to earth again, He was too greet to burn. —From an old REFISTER.

(This stanza is put in, not by any means because it applies to the present Freshman class, but simply because it is a good joke.)

Teacher—Describe a rabbit. Boy—A rabbit is an animal with long ears, and an anecdote.

Teacher-What do you mean by an anecdote?

Continental

Boy—Why, a short, funny tail.

Lost—English flag stick pin. If found, please return to Dorothy Young.

MAXIMS.

There is nothing more beautiful than cheerfulness on an old face, and it is always a sign of a well-regulated and pious life.

What best thing has not occurred in a state of enthusiasm, and what worst thing has not been done in cold blood? Victories beget victories as defeats do defeats. After the victory the new situ-

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ation brings a new struggle.

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