

CURE RHEUMATISM.

ful Until the Tonic Treatment Is Given a Trial.

noon. I never suffered from the pain at night. "I tried without success to get re-hef until a friend told me to try Dr. Williams' Pink Pills. When I had taken a few boxes I felt the pain grow-ing less intense and in a much shorter time than I had hoped for I was en-tirely cured. I have recommended the pills to several persons, who have used them with good results. "My wife uses Dr. Williams' Pink Pills for nervous headaches and finds them the best medicine she has ever used as they give relief where all oth-ers fail."

Dr. Williams' Pink Pills have cured

prostration, dizziness, partial paraly-sis, St. Vitus' dance and locomotor

sis, St. Vitus' dance and locomotor ataxia, because they feed the nerves and give health to every tissue of the body. They are unequalled as a blood builder and are especially valuable in rheumatism, anaemia, after-effects of the grip and fevers, because they reach these diseases at their root and also start right in to tone up the whole body.

Dr. Williams' Fink Fins are soid by all druggists or sent, postpaid on re-ceipt of price, 50 cents per box, six boxes \$2.50, by the Dr. Williams Medi-cine Company, Schenectady, N. Y. An instructive booklet, entitled "Nervous Disorders," will be sent free on request to anyone interested.

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a lens cannot increase the total amount of heat coming from any heated ob-ject. Try an electric lamp with the lens. It will light matches; still it is less hot than at the point of light it-self. And this is always true. Yet lenses have been made, which by con-centrating the sun's rays have melted steel and other substances which the bottost furnace would more melt What

steel and other substances which the hottest furnaces would not melt. What, therefore, must be the temperature of the sun? Since, from the above experi-ments the heat in the focus of the great loss must be mean there are a start of the great

lens must be many times less than the heat at the surface of the sun itself, it follows that the heat at the sun's

surface is many times greater than that which will melt the most refractory substances found on the earth's surf

WHY HIGH PLACES ARE COLD.

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Nature Classes at Stath Normal Show How to Read Science In Winter.

SUNSHINE AS ENERGY.

Familiar Facts That Seem Wonderful When Their Causes Are Ascertained.

N nature study, what shall we teach in the schools from December to March? Within range of easy observation there are no plants growing, no weeds in the fields, no leaves on the trees, no birds except sparrows, few animals except those domesticated. What, then, is the most obtrusive and insistent feature of nature at this time? Various answers to this question were given by normal students at the state university. One said the weather; another, the cold weather; a third, the snow and the storms; a fourth, heating and ventilation; a fifth, clothing and the housing of animals; a sixth, the heat of the sun; a seventh, coal and fuel; and an eighth, the starry heavens If we are to consider at this time that aspect of nature which impresses us most, these spontaneous responses indicate that we should investigate the subject of heat, especially the heat of the sun, and such other topics as naturally relate to this center and source of all heat, light, life and motion upon the earth.

WHERE TO BEGIN.

Sir Henry Ball begins a series of lessons on this subject by calling attention to the familiar fact that the nearer we are to the source of heat say to the fire on the hearth, the hotter it is. We may take an imaginary journey to the sun, carrying in our journey to the sun, carrying in our hands a wax candle, a leaden bullet, a penny, a poker, and a piece of flint. Then, supposing ourselves able to endure any degree of heat in our journey towards "the light of the world," what will happen to the ma-terials we have agreed to take with us? The wax candle will soon begin to melt from the increasing heat. Be-fore long, as we get nearer to the

us, The wax candle will soon besit for long, as we get nearer to the source of heat, the leaden bullet houter, will also melt and flow from our grasp, just as the candle did. The penny is only hot, and has not melted yet, for we are still far from the sun; but it finally gets red-hot as we pursue our journey, till it interactly red hot, begins to turn white so we come nearer to the great fire. When it becomes so brilliant in its white also and becomes a liquid to look at it, the iron poker follows in donly the flint, glowing with the same fervor, remains unnelted. Final-by it yields also and becomes a liquid from the intensity of the heat. Yet we great globe of fire toward which we started. It is now hot enough to melt flint; but at the sun's surface, is enter than that necessaray to we started. It is now hot enough to melt flint; but at the heat is many intensity red have fire toward which we started the sun's surface, so we know that the heat of the sun is we have that the heat of the sun is the sufficient to melt all know we know that the heat of the sun is surface. Let us set. HOW THIS IS PROVED.

### HOW THIS IS PROVED.

are heaviest, which are also the low-est, will retain the most heat; while those which are higher and there-fore lighter, will retain less of the earth's heat and will let the earth get cold at great elevations, because of the loss of the heat radiated from the earth itself.

A COMPARISON.

A COMPARISON. It is true that we are nearer the sun, the source of heat, when at the top of a mountain, than when in the valley; but if we should ascend to the top of the highest known mountain, we should have gone only one ten-millionth of the distance to the sun. If there were a small bonfire on the mountains yonder, a little further than the near any approximation of the sun termine and any approximation. Is Given a Trial. "When I was a boy of sixteen," says Mr. Otto H. Rose, a retired grocer, of 1226 Lexington Avenue, Indianapolis, Ind., "I met with a serious accident which injured the bone of my head over the right eye. I recovered from the accident to all appearances, but not many years after I began to have intense pains in the injured bone, which came on every year and would last from a few days to several weeks. "I consulted the doctors who told me that I was suffering from neural-gia. The sight of my right eye was affected, so that at times I could scarcely see out of it, while both eyes watered constantly. During these at-tacks I was often dizzy from the ter-rible pains. The pains came on every morning and passed away in the after-noon. I never suffered from the pain at weet two miles away, say 200,000 inches,how far should we have to approach to-ward the fire on the mountain to equal the same relative proportion of equal the same relative proportion of the whole distance, as the highest mountain is of the distance to the sun? Making the calculation we see that one-fiftleth of an inch is the same proportion of 200,000 inches that 30,000 feet is of the sun's mean dis-tance. And we know that to approach one-fiftleth of an inch nearer to a bon-fire two miles away would not make any appreciable difference in the amount of heat we receive from it.

WORK OF SUNSHINE.

WORK OF SUNSHINE. Sunshine is a sort of motion that travels by oscillations, or waves, of the invisible ether that fills all space. This vibration comes from the sun at the rate of 186,000 miles per second. The oscillations, or waves, of the mys-terious ether are so rapid, the ether being so fine and light, that the earth's atmosphere, composed of particles so large and gross in comparison with ether, does not take up the wave motion of the ether-does not get warmed much by the passage of the heat from the sun to the earth. But upon striking the earth's surface, the soil grains take up a portion of this motion end the sum is to the bardies. upon striking the earth's surface, the soil grains take up a portion of this motion and transmit it to the mole-cules of air in contact with the earth, causing the air molecules to oscillate or vibrate more rapidly in little circuits called "waves." This vibration ex-pands the air, which rises, being dis-placed or forced upward by the cooler and heavier air round about. This is a wind—the energy that drives the saliship, turns the windmill, etc., and is an effect of transformed sun-shine. shine.

HEAT ENERGY IN WATER.

When sunshine falls on water, the molecules at the surface are thrown into violent motion, are separated from one another, and rise as vapor into the air, thence to fall as rain or snow, and to return to the ocean, whence they ame.

came. Some of the energy of the sunshine, however, does not rise in air currents stored in the vapor of water, but goes deeper into the soil there to be stored in the form of the increased motion which it causes among the soil molecu-les. This soil motion increases from spring to midsummer and then gradu-ally slows down during fall ond winally slows down during fall and win-ter. The annual increase or income of heat from the sun is about equal to the annual out-go from the earth, since the soil molecules can give up their motion (heat) only by transmitting it to other molecules—those of the air, the water, the rocks. This work of the water, the rocks. This work of the sun in giving to the earth the energy of motion that causes plants to grow and to turn all of our ma-chinery, Lord Kelvin estimates to be, for each cubic mile at the earth's surface, 22 horse power; and since 186,680 cubic miles of sunshine arrive each seend at our source for arrive each second at any square foot of the earth's surface, there is about one-seventh of a horse power of energy exerted every second by the sunshine.

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Now arises a peculiar difficulty. Why is the second by the sunshine.
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Worn the source of the second by the source of the source o WORK OF THE AIR. Thus it is the atmosphere that keeps the earth warm. It permits the short either waves to pass through as they come from the sun; but the motion which these waves set up among the earth molecules of the soll is slower, and these longer waves cannot pass back through the air without setting its molecules winging. Heat is this motion, and atmospheric warmth is imprisoned sunshine. Without an at-mosphere, Langley has shown that the earth's surface, under the equator at moon, would be 32s degrees F. below zero, and no form of life would be pos-sible on this planet. Composed primar-ily of 20.61 cubic feet of oxygen, 77.18 of nitrogen, and .78 cubic feet of a re-cently discovered gas called argon, with varying quantitles of water vapor (average 1.4) and of carbon dioxide (.4), as well as smaller quantities of nitric acid, ozone, and ammonia, the last six forming 97 per cent of all the materials built into plants, the air per-forms a very important work in trans-porting both the food elements and the waste products to and from every liv-ing thing. It carries water and oxygen



Instant Relief. Permanent Cure Trial Package Mailed Free to All In Plain Wrapper.

Piles is a fearful disease, but easy to cure if you go at at right. An operation with the knife is dan-rerous, cruel, humiliating and unnecessary.

There is just one other sure way to be enred—painless, safe and in the privacy of your own home—it is Pyra-mid Pile Cure. We mail a trial package free to all

who write. It will give you instant relief, show you the harmless, painless nature of this great remedy and start you well this great remedy a perfect cure.

Then you can get a full-sized box from any druggist for 50 cents, and often one box cures. If the druggist tries to sell you something just as good, it is because he makes more money on the substi-

Insist on having what you call for. The cure begins at once and con-tinues rapidly until it is complete and permanent.

You can go right ahead with your work and be easy and comfortable all the time. It is well worth trying.

he time. It is well worth trying. Just send your name and address to yramid Drug Co., 65 Pyramid Build-ag, Marshall, Mich., and receive free y return mail the trial package in plain wrapper. Thousands have been cured in this

the privacy of the home. No knife and its torture.

No doctor and his bills. All druggists, 50 cents. day for a free package. Write to-

# CIVIL SERVICE EXAMS.

## For Positions Ranging From \$900 to \$2,500 a Year.

There will be civil service examinations n this city Feb. 27, for the position of second class (or assistant) steam engieer, custodian service, at \$900 per annum. in the federal building in this city; also

Become class (of assistant) steam enginer. Steam car, at \$900 per annum, in the federal building in this city; also for the position of assistant assayer, mint and assay service, at \$1.50 per annum. The duites of the assistant assayer of are to receive, weigh, and meit deposits of building to assay gold buildin of various characters and fineness; to make the necessary computations to determine the value of each deposit, and the deposit of this position must indicate in their application of supervising drainage enditors about methods, of irrigation to be followed.
The examinations also include those for the position of supervising drainage enditors for this position must indicate in their applications that they have had five to the reclamation of agricultural and drainage. Supervising of drainage werk and are able to design and direct the carrying out of important projects in land drainage. Supervising the the department of agricultural investigations of special problement. The position framer, department of agricultural more the reclamation of agricultural with a daries of the position must indicate a more the reclamation of agricultural investigations of special problement. The the reclamation of agricultural and the verse states in the operating or the reclamation o

ELY BANK MERGER. H. P. Clark, a Salt Lake Cashier, to be

The President.

The White Pine Counay Bank of Ne-

vada will be merged with the First Na-tional bank, both of Ely, and the con-

solidated concern is to occupy the present quarters of the former until the com-

ent quarters of the former until the com-pletion of the \$50,000 Myers building. H. P. Clark, cashier of the Commercial Na-tional bank of this city, will be the pres-ident of the First National bank, with A. D. Myers as vice president. A. B. Witcher, formerly manager of the Utah Savings Bank & Trust company of this city, is to be eashien with John Big-gane as assistant cashier. This does not necessitate Mr. Clark's removal from this city: but he will make periodical trips to Ely in connection with the business of the bank there.



earthquake money. MERCHANTS' PROTECTIVE ASSOCIATION

> Scientific Collectors of Honest Debts, FRANCIS G. LUKE, Gan'l Manager.

"SOME PEOPLE DON'T LIKE US."

Headquarters for Everything

EVENING OF MUSIC.

Marriage Licenses.

The county clerk issued marriage li-enses during the past week to the fol-

Walter East, Sait Lake; Hilda' Pear-son, Sandy. John Hagerman, Goldfield, Nev.; Katherine Bowes, New York. Joseph H. Horrocks, Sait Lake; Myrtle I. Peterson, Sait Lake, Austen M. Ericksen, Sait Lake; Mar-garet Ryan, Sait Lake. Herbert J. Willard, St. Johnsbury, Vt. Mes Langie Gaunatt Convoc City

Vt.; Mrs. Jennie Gannett, Canyon City,

Colo. Henry F. Webb, Salt Lake; Mattle Glenn, Salt Lake. St. Louis; Clara.

Take a burning or reading glass or an ordinary lens and let the sun shine through it at midday. Hold one hand at the brightest spot, or focus of the lens; it gets hot. On a summer day the focus will give heat enough to set fire to fine paper or wood cinders, and will readily ig-nite matches. Why does the lens have this power? It collects the rays of sunlight and brings them to a point (focus). Each ray contributes point (focus). Each ray contributes the a little light and heat; and the sum it. (focus). Each ray contributes

Wheeler, St. Louis, Henry Holeman, Salt Lake; Esther

Henry Holeman, Salt Lake; Esther Purcell, Salt Lake. James H. Tripp, Salt Lake; Sarah E. Page, Salt Lake. Walter C. Cooper, Bingham; Emma Monkhouse, Bingham. Albert L. Davis, Ogden; Mary G. Meyer, Ogden. Oto C. Millerburg, Salt Lake; Min-nie E. Shettle, Salt Lake. Thomas E. Cochran, Del Norte, Colo.; Clara H. Fairbanks, Del Norte, Colo. 5th Floor Commercial Nat'l. Bank Bld'g, Salt Lake City, Utar

sports, for sanative, antisep-

tic cleansing, for baby rashes, itchings, and chafings, and for all the purposes of the

toilet, bath, and nursery, Cuti-

cura Soap, assisted by Cuticura Ointment, is priceless.

Guaranteed absolute y pure, and may be used from the hour of birth-

aughout the world. Depots use Sq.; Paris, 5 Rue de la F wns & Co., Sydney; India, China, Hong Kong Drug d. Tokio; Bunsia, Ferrein, M







THE VALUE ERSONAL KNOWLED Personal knowledge is the winning factor in the culminating contests of this competitive age and when of ample character it places its fortunate possessor in the front ranks of The Well Informed of the World. A vast fund of personal knowledge is really essential to the achievement of the thest excellence in any field of human effort. A Knowledge of Forms, Knowledge of Functions and Knowledge of Products are all of the utmost value and in questions of life and health when a true and wholesome remedy is desired it should be remembered that Syrup of Figs and Elixir of Senna, manufactured by the California Fig Syrup Co., is an ethical product which has met with the approval of the most eminent physicians and gives universal satisfaction, because it is a remedy of Known Quality, Known Excellence and Known Component Parts and has won the valuable patronage of millions of the Well Informed of the world, who know of their own personal knowledge and from actual use that it is the first and best of family laxatives, for which no extravagant or unreasonable claims are made This valuable remedy has been long and favorably known under the name of - Syrup of Figs - and has attained to worldwide acceptance as the most excellent family laxative. As its pure

axative principles, obtained from Senna, are well known to physicians and the Well Informed of the world to be the best we have adopted the more elaborate name of -- Syrup of Figs and Elixir of Senna -- as more fully descriptive of the remedy. but doubtless it will always be called for by the shorter name of - Syrup of Figs - and to get its beneficial effects, always note, when purchasing the full checks, always note, when purchasing the full name of the Company — California Fig Syrup Co. — printed on the front of every package, whether you call for — Syrup of Figs — or by the full name — Syrup of Figs and Elixir of Senna.

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## NEW REGULATIONS

Whereby Militia Forces Are Enabled to Secure Share of Govt. Appropriation.

Conolent H. M. H. Lund is in receipt of a copy of the new regulations which the militia forces of the country must conform to in order to secure any share of the government appropriation, These regulations prescribe that the minimum strength of company commands in the infantry, cavalry, engineer and signal infantry, cavalry, engineer and signal branches shall be 58 enlisted men. An ambulance company must have 43 men, field hospital 23, coast artiliery 63, and field artiliery 133 men. There is only one company command in this state that has over 50 enlisted men, and that is C company, First infantry, of this city, However, Colonel Lund believes that with special effort, the various company commands in this state can be increased to the statutory strength, though some difficulty may be experi-enced in recruiting the battery up to 133 men, in time to pass the April in-spection. spection It is i

It is interesting to note that the war department proposes to utilize the na-tional guard of the states into a mi-ional reserve; and to expedite the mo-bilization of the organized militia, or-dered into service, the war department, after consultation with the state au-places in the states for assembling of forces, the federal government meeting and authorized expenses incident to this preliminary concentration from the day the militia appear at their places of minimum endezvous. is interesting to note that the war