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SCIENCE.

ABOUT BRICKS .- An average day's work for a brick-layer is 1,500 on outside and inside walls; on facings and angles, and finishing more than half of this number can be laid. To find the number of like. bricks in a wall, first determine the number of square feet of surface, and then multiply by 7 for a 4 inch wall, by 14 for an 8 inch wall, by 21 for a 12 inch wall, and by 28 for a 16 inch wall. For staining bricks red, melt 1 ounce of glue in 1 gallon of water; add a piece of alum the size of an egg, then one-half pound of Venetian red and one pound of Spanish brown. Try the color on the bricks before using, and change to light or dark with the red or brown, using a yellow mineral for buff. For coloring black, heat asphaltum to a fluid state, and moderately heat true surface bricks and dip them. Or, make a hot mixture of linseed oil and asphalt, heat the bricks, and dip them. Tar and asphalt are also used for the same purpose. It is important that the bricks be sufficiently hot, and be held in the mixture to absorb the intelligence. color to the depth of one sixteenth of an inch .- The California Archi-

An American is reported to have discovered an ingenious method of severing bars and shafts of iron. A wheel like a buzz-saw, but without teeth, is made to revolve at a high rate of speed, nearly (but not quite) in contact with the bar it is desired to cut, which is revolved in the same direction at a lower rate. The result is that the latter is almost instantly cut in twain, although there is no actual contact between the two metals. Drops of melted iron fall rapidly while the process is going on; but they are not hot, though

THE MOSQUITO'S INSTRUMENT OF TORTURE.—A writer in the London Sportsman thus describes a mosquito as seen under a microscope:

It appears that in the "bill" of the little beast alone there are no fewer than five distinct surgical instruments. These are described as a lance, two neat saws, a suction pump, and a small Corliss engine. It appears that when a "skeeter" settles down to his work upon a nice tender portion of the human frame the lance is first pushed into the flesh, then the two saws, placed back to back, begin to work up and himself, "There is a good head of down to enlarge the hole, then the pump is inserted, and the victim's blood it siphoned up to the reservoirs carried behind, and finally, to complete the cruelty of the performance, the wretch drops a quantity tone as possible, would move gently in the Abbey was accordingly copied of poison into the wound to keep it about, and aim to get his team irritated. Then the diminitive fiend takes a fly around just to digest your gore, and makes tracks for a with a few irregularities, such as fresh victim, or if the first has been getting out of the furrow and pullof unusual good quality he returns to the same happy hunting ground. The mosquito's marvelous energy, they were warmed up to their work, combined with his portable operat- they would move on smoothly and ing chest, make him at once a terror at the same time quickly, and at the and a pest.

us, it is pleasant to be again informed that the two eyes of the common | fume and worry and passion. As house fly are composed of 8,000 little globules, through every one of true of fowls; if you at all times exwhich it is capable of forming an image of the object, putting us at the mercy of the observation of thousands of eyes in one fly.

In the late accident on the Manchester, Sheffield, & Lincolnshire Railway a rail was torn from its

The condor can withstand variations of temperature beyond human it rests quite comfortably on the burning sands of the southern seaslope of the Andes-not only Chili, With the vast spread of its wings -

lightning from heaven.

pig discovered in a limpid mountain | tle are fed meal to make beef, they lake. It is supposed that he turned | are given from one third to one-half around wood or stone work, not to stone on looking into the water too much at a time. and discovering what he looked

FARM AND GARDEN.

HARVEST SONG. Most sweet it is to sit in peace Beside your household door. And watch your harvest's rich increase, The while the heavy hours release Their toil, and day is o'er.

Most sweet, as on the mellow eve We see it and rejoice; While o'er the hill tops, ere he leave, The great sun pauses to receive The blessings of our voice.

Most sweet, the happy household round, The babe upon the knee, To sit with peace and plenty crowned, And know the unregarded ground From which these blessings be.

Every farm should own a good farmer; the fertilizer of any soil is a spirit of industry, enterprise and

KINDNESS AS AN INVESTMENT .-There is nothing worse for domestic animals than to scare them half to death. Fright uses up the vital forces more than work, more than the growth of flesh or fat, more than anything else, unless it is persistent starvation. We have had two men working for us, with teams, on the same farm at the same time. One ity to digest its food. An animal would take his horses from the stable when they had been refreshed | kept out of the cold. by a few days' rest and were feeling well, and, because they were pretty frisky while they were being harnessed, and the off-horse did not keep the furrow well at the first send-off, would get out of patience and yell at his team till finally they would break into a trot, when he would throw the plough to the full depth into the first hummock he could find, bring the team to a full stop, and by this time they would sah, I hope so. I hope you'll git him be well in a "lather" and quivering back afore noon." "Got a job for the with excitement. After he had yelled for a few minutes, and the son who stole dat hoss feeds him oats horses had become fully frightened, they had used up enough strength

to move the plough for an hour. The other man knew better. When he observed, while "hitching up," that the horses' heads were carried high, and that they were feeling first-rate, he would say to steam on to-day, and I shall be able to get a good day's work out of these fellows if I save it all to be used to the best advantage." Therefore, he would speak in as quiet a afield without the risk of any rumpus or excitement, and would bear ing by fits and starts a few times. The consequence would be that when end of an hour there would be a row of nice, fresh furrows to show as an As the fly season is again upon equivalent for the "steam" the other stiches in a shirt. man had used up in mere fret and it is with larger animals, so it is ercise kindness toward them, they will doubly repay you for all your

FEEDING AND FATTENING .- Dr. better to give cattle only two meals | the pump-handle.' fastenings and twisted round and a day when fattening. He means round an axleshaft like a piece of by this statement that two meals of condensed food in the form of meal are sufficient. The stomach needs to be emptied to keep up its tone and to cause an appetite. The diendurance, and hatches its young gestive apparatus is not fitted for above the snow line-nevertheless, 'perpetual motion,' or at least it ought not to be made so; and when tais is attempted the machinery gets coast. It haunts the whole western | quickly out of order. Cattle which are stall-fed are generally fed too but Peru, Bolivia, and Patagonia. much. Over worked, whether in the nature of periodical or continuoften exceeding twelve feet-it can ous gorging, it makes but little difperform prodigious journeys in a ference. If there is more food put few hours. Its eye is miraculously into the stomach than can be dikeen; for when no bird is visible in gested and afterwards assimilated, the sky, even with the aid of a then there is loss. The surplus is

Journal.

condors instantly drop upon it like | into the manure pile. This is good for the manure pile, but not quite so sensible from the granary view A Western novelty is a petrified of the matter. As a rule, when cat-

HOW TO FEED.

Cattle should have but two feedings of meal in 24 hours. Some feeders keep hay before their cattle all the time and thus allow them to eat all they wish. When eating meal, cattle will not eat so much hay; hence it is well to give them an extra feeding of hay in the middle of the day. They should be given hay so that they can eat some of it before and after the meal-ration in order that both kinds of feed may be mixed together as much as possible in the rumen to induce rumination and to prolong the period of the food in the stomach. The best way to give meal is with roots, and, in the absence of these, to chop or cut hay and mix it with the meal ration, the whole being wetted. This system of feeding will insure a more perfect mastication as well as rumination and digestion-all three important and really parts of a perfect system of feeding any animal of this genus.

STOMACHS DIFFER. Two head of cattle of the same age standing side by side may eat alike, but it does not follow that they digest alike. The difference in this respect should be carefully noticed, and the animals be fed accordingly-each getting more or less than the other according to its abilmust have a variety of food and be

VARIETIES.

A colored man was at police headquarters yesterday to complain that some one had stolen his horse and wagon off the street, and to request unusual energy on the part of the police. " Oh, we'll get the rig back in a little time, I guess," said the official. "I hope so, afternoon?" "No, sah; but if de pusfur dinner, which he probably will, it'll take me six weeks to git him back to whar he'll relish old straw bed agin!" - Detroit Free Press.

The curious story is told that when, in 1808, it was proposed to place a memorial of Addison in Westminster Abbey, there was difficulty in finding a trustworthy portrait for the guidance of the sculptor. At length it was resolved to make use of a head size picture of the great essayist which had been in Holland House for many generations, and was always supposed to be a portrait of Addison. The statue from this work, but some time afterward it was discovered that the picture in Holland House was in reality a portrait of Sir Andrew Fontainé. The statue placed in the Poet's Corner in honor of Addison is, therefore, in fact a portrait of his friend, the founder of the Norford collection, which was recently sold.

A woman who cannot shoe horses can shoo hens.

An English seamstress has prepared a table showing that there are 20,649

Nearly the entire population of Washington board - the rest keep boarders.

A white butterfly from the Hebrides brough \$65 at a recent London sale. care and kind attention .- Poultry

'Do you know what the board over that cow's face is for?' asked the Colonel. 'No,' responded the Major, unless it is to keep her blushes from Sturtevant has discovered that it is being seen when the milkman works

> The fondness of the coloured race for high-sounding names is illustrated by a Florida negro named Romeo, who is wedded to a maid of his race called Juliet. This couple have twins, whom they have named Romulus and Remus, and the family is conveyed to church on Sunday by a horse named Pontius Pilate.

A Kansas City youth sent seventy five cents to New York, to learn how to write without pen and ink, and received the recipe which read, "Write with a pen-

We knew of a man who sent a dollar to New York for a "sure cure for rheumatism," and received the prescription-' Take the right kind of medicine.' powerful glass, if a mule or other thrown out of the stomach and Those New York fellows are a very animal in a convoy fall or die, the voided as soon as possible and goes immoral community.'

BAPTIST HEAD-QUARTERS.

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Send for NEW CIRCULAR. GEO. A. McDONALD,

July 23. Secretary.

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and all points in the Mexican Republic. HOME-SEEKERS Should also remember that this line leads direct to the heart of the Government and Railroad Lands in Nebraska, Kansas, Texas, Colorado and Washing-It is known as the great THROUGH CAR LINE of America, and is universally admitted to be the Finest Equipped Railroad in the World for all classes of Travel. Through Tickets via this line for sale at all Rail-road Coupon Ticket Offices in the United States and

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Which they can make up at prices which will defy competition. A perfect fit and every satisfaction guaranteed. May 23.

IT IS TRUE!

KIND WORDS. WHAT OTHERS THINK OF BUDS AND BLOSSOMS.—The following is from The Christian at Work, a first-class religious weekly, published in New York: " In the City of Halifax, Nova Scotia, is published a monthly magazine called Bups AND BLOSSOMS and edited by J. F. Avery. Each number contains forty pages, plentifully and handsomely illustrated, and at 75 cents a year is certainly one of the cheapest publications extant. But better still, it is one of the best. Its pages are full of the gospel spirit, excellent temperance sketches, missionary intelligence, short stories, household hints and suggestions, all entertaining clean and wholesome literature, suitable for the home and family circle, and calculated to promote purity and knowledge among its readers. We do not know what the circulation of this excellent publication may be, but of this we are sure, it ought to be double whatever it is, for it is just the right kind of reading to be put into the hands of young folks; bright, cheery, hopeful and strong, without cant or sickly sentimentality. We hold it as an indisputable truism that when an opportunity offers to promote the circulation of such literature among the young it becomes a religious duty to do so. Send to the publisher for a specimen copy, and you'll find that we have not said onehalf the good things we might concerning it."

SPECIAL OFFER!!!

We will send back numbers, till the end of 1884 for 50 cents, or for \$1.00 will take new names from date until end of 1885. So confident are we you will like it, we offer it for 25 cents remainder of the year. Send 6 cents for specimen and opinions of the press.

Buds & Blossoms.

REV. J. F. AVERY, Editor, Mizpah Cottage, Kempt Road, Halifax, N. S. Aug. 6.



GATES' Certain Check

Purely Vegetable Compound AND IS A

Sure and Speedy Reliever of all kinds of Pain and Cramp.

It is certain to cheek Diarrhoea and Dysentery almost instantly as well as cholera, Cholera Morbus and all kinds of

No family should fail to have a supply of this in the house as it may save life before a physician can be called, beside saving a great amount of suffering. Would recommend to diet for a short time after relief is obtained. For children nothing can be found to equal itbeing very pleasant to the taste and giv-ing relief instantly.

TRY ONE BOTTLE. Full directions of Label and Wrapper. Sold everywhere at 25 cts. per bottle. Manufactured by C. GATES SON & CO., Middleton, Annap. N. S.

See Certificate next month. July 23.

SAVE THE NATION!

For it is sadly too true that thousands of children are STARVED TO DEATH every year by improper or insufficient food. Remember,

RIDGE'S FOOD

Is all and a great deal more than we have claimed for it. It is simply a HIGHLY NUTRITIOUS and easily assimilated FOOD, grateful to the most delicate and irritable stomach, and especially adapted for the INFANT and GROWING CHILD.

Invalids, Nursing Mothers, and those suffering from Indigestion will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, is all they can desire. It is carefully put up

Constant users will find our No. 4 size (always the most economical size to buy) now much larger than formerly, thus materially lessening the expense. WOOLRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridges Food, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17

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wool, Dyed and Pressed whole, without JOHN HUBELEY, 566 Upper Water Street, Cheapest Place in the city for Dyeing.

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By F. WRIGHT, Maunfacturing Chemist Kensington High Street, London, W. "This WINE is guaranteed to be the uice of the finest grapes of the Cote d'or, Andalusia, and the Medoc. It is perfectly free from Alcohol, and is guaranteed to be Pure Grape Juice. It has stood the test of 22 years' continuous sale in every climate, and is now used in upwards of 1500 Churches of all denominations. The mode of manufacture is a slight modification of a wellknown ancient practice, and effectually pre serves the grateful flavor and the rich nutri tious qualities unimpaired. It is therefore admirably adapted in cases of debility and fever, in which the stomach is too weak to digest other food. Children suffering from

when all other food has been refused. JOHN M. HODGES, ESQ., M. D., F. C.S., Public Analyst for Antrim County and Belfast

febrile ailments drink it with avidity, even

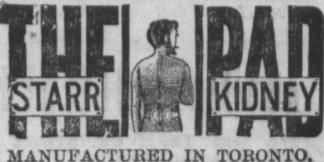
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