

FARM AND GARDEN.

Teaching a Horse.

The qualities required in a teacher of youth are needed in one who essays to train a horse. He must be gentle, firm, and gifted with the art of putting things. If he also possesses that which is an excellent thing in man as in woman, a voice "ever soft, gentle and low," it will be all the better for himself and his pupil.

Take him to the top of a rather steep piece of ground stand his hind feet down the slope, throw the bridle reins over the neck, place yourself in front and take hold of them on each side on the head close up to the bit.

Now press the bit against the sides of the mouth and speak gently—"back, back"—and the horse will soon learn to do this.

Next take him on, the top of ground not quite so steep, and pursue the same course. When the horse has learned to back readily down hill, he can be taken on to level ground to do it.

As soon as this lesson is well taught, harness him to a light, empty wagon, and go through the same course.

When completed, jump into the waggon, take the reins in hand, pull on them, at the same time speaking to him, "back, back," and thus keep up the discipline till the animal is perfected in it.

If he has a mate, after both are well instructed, they can be harnessed together, and drilled till perfected in it.

Three things, as above stated must be strictly observed: First, place the horse with his back down descending ground; second, when harnessed, let it be to a light, empty waggon, which requires the least possible effort to back it; third, be perfectly kind to the horse, speak gently, pat it on the neck, stroke down its face with the hand, and on no account strike it.

As soon as the horse understands what is wanted of him, he will do it with alacrity. It is not from ill temper or stubbornness that a horse does not back at once when spoken to; it is from sheer ignorance; he does not know what is wanted, or how to do it until gently taught.

A second method is to harness the horse alongside of another well broken to back, and set the hind end of the wagon on a sloping piece of ground, and follow the directions above, or jump into the wagon and take reins in hand; but it is better to discipline alone at first, as above.

To teach a horse to lead, let a man or boy take the end of the bridle in hand and gently pull on it, while another holds out a dish with grain or meal in it.

The horse will then advance to it. Now let him nibble a small quantity, then move with the dish, a little further in front, and so keep on till he is taught to lead well.

He can also be taught by putting him alongside of another horse which leads easily. He ought to be rather hungry when thus drilled, so he will come up eagerly to the dish of grain.—Rural New-Yorker.

HOUSEHOLD.

Always boil milk and custard in a vessel set within another of boiling water. If you have not a custard or farina kettle, improvise one by setting a tin-pail inside of a pot of hot water, taking care it does not float, also that the water is not so deep as to bubble over the top. Custards are better and lighter, if the yolks and whites are beaten separately, the latter stirred in at the last.

BAKED HASH.—Chop fine equal quantities of cold meat and potatoes, rub to a coarse powder a like measure of stale bread; about one pint of each will make a dish of medium size; mix with these ingredients a tablespoonful each of grated onion and finely chopped parsley, two teaspoonfuls of salt, one of powdered thyme, half a saltspoonful of pepper, and one egg beaten smoothly with half a pint of milk; put all these ingredients into a buttered earthen dish, strew a thin layer of fine bread crumbs over the top, and bake the hash brown in a moderate oven.

COLD POULTRY HASH.—Cut the meat in pieces, put the trimmings and bones in a saucepan with some pepper, salt, a slice of lean ham, and a little

onion; simmer this for half an hour, thicken it with a bit of butter rolled in flour, then put in the meat; before serving squeeze in a little lemon-juice.

No matter how industrious or economical a young man may be, his endeavours to save are wasted if he has a careless wife. He might just about as well be doomed to spend his whole strength and life in an attempt to catch water in a sieve. The effort would be scarcely less certainly in vain. Habits of economy, the way to turn everything in the household affairs to the best account—these are among the best things which every mother should teach her daughters. By neglecting so to do they make a great mistake.

GINGER PUDDING.—Ingredients:—Half pound flour, quarter pound suet, quarter pound moist sugar, two large teaspoonfuls of ground ginger. Mode—Shred the suet fine, mix with flour, sugar, and ginger; stir well and put in a buttered basin, dry; tie a cloth over, and boil three hours; no liquid to be used.

PEASE PUDDING.—One and a half pints of split peas, two ounces of butter, two eggs, pepper and salt to taste. Soak the peas all night, tie loosely in a clean cloth, put them on in cold water, and allow two and a half hours after they boil; if the peas are tender, rub them through a colander; add the butter, pepper, salt, and eggs; beat all well together, then tie tightly in a floured cloth and boil another hour. Turn out and serve very hot. This is very good with boiled leg of pork.

ORANGE JELLY.—Dissolve two ounces of gelatine in a pint and a half of water, add the juice and rind of a lemon, six ounces of loaf sugar, the rind of two oranges; boil this together five minutes, then add the juice of five oranges; beat the whites of three eggs to a stiff froth, break the shells and mix with them; stir carefully into the jelly, and pass through the bag till clear.

BEEFSTEAK AND KIDNEY PUDDING.—Two pounds of rump steak, two kidneys (sheeps) pepper and salt to taste, suet crust in the proportion of six ounces of suet to one pound of flour. Cut the steak and kidney into pieces about an inch square; place a clean cloth in a deep basin, then lay the crust on the cloth (which should be rolled out a half inch thick); then proceed to put the meat in, adding pepper and salt, and a little flour dredged in until the above quantity of meat is used, then pour a little water in and roll a small round piece of crust out for a lid, pinch the edges together, and gather the cloth up, and tie very securely into a nice, round pudding; put it into boiling water and boil four hours; place a saucer in the bottom of saucapan to prevent the pudding burning. Keep the water well above the pudding, and boiling the whole time. This pudding can be boiled in a basin if preferred, but is much lighter in a cloth. A fine dinner for good appetites. When served cut a round hole in the top and put a piece of butter in, and add a cupful of boiling water to make the gravy. Eat very hot.

After the dust has been thoroughly beaten out of carpets, and they are tacked down again, they can be brightened very much by scattering corn meal mixed with coarse salt over them, and then sweeping it all off. Mix the salt and meal in equal proportions.

SCIENCE.

WATER HEATER.—The Scientific American has an engraving of an improved apparatus for heating water in large or small quantities, without trouble and with very little expense. It may be used to advantage wherever hot water is required. It will be found very useful for stables, dairymen, farmers, and others.

The apparatus is to be submerged in water contained in a barrel, tank or other suitable receptacle. The fuel used is oil or gasoline.

The body of the heater is made of sheet metal, and has flaring sides and a broad base. In one side there is an opening closed with a screw cap, which is packed to make it water-tight. This opening is to give access to the burner for lighting or adjusting. The closed top of the body, which is of copper, is provided with a series of tubes communicating with a central tube, which leads upward and forms a chimney to convey the products of combustion above the surface of the water in which the heater is placed. Two inclined draught tubes, extend above the surface of the water and supply air to the flame in the body.

The burner used in the heater may be of any approved pattern for burning kerosene or gasoline. The liquid fuel is supplied through the tube, from a reservoir above. To heat a quantity of water with this apparatus the cap is unscrewed, the burner lighted, and the cap replaced after the flame is properly regulated. The heater is then plunged into the water, which, being in contact with highly heated surfaces, soon becomes heated.

This apparatus is convenient for heating water for bathing purposes, for laundry and for indoor as well as out of door uses.

THE OLDEST TREE IN THE WORLD.—The oldest tree in world, so far as any one knows, is, says Knowledge, the Bo tree, of the sacred city of Amarapura, in Burmah. It was planted 288 B. C., and is therefore now 2,170 years old. Sir James Emerson Tennent gives reasons for believing that the tree is really of this wonderful age, and refers to historic documents in which it is mentioned at different dates, as 182 A. D., 223 A. D., and so on to the present day. "To it," says Sir James, "kings have even dedicated their dominions, in testimony of a belief that it is a branch of the identical fig tree under which Buddha reclined at Urumelaya when he underwent his apotheosis." Its leaves are carried away as streamers by pilgrims, but it is too sacred to touch with a knife, and therefore they are only gathered when they fall. The King oak in Windsor Forest, England, is 1,000 years old.

The amount of light given out by a gas flame depends upon the temperature to which the particles of solid carbon in the flame are raised, and Dr. Tyndall has shown that of the radiant energy set up in such a flame, only the one twenty-fifth part is luminous; the hot products of the combustion carry off at least four times as much energy as is radiated, so that not more than one hundredth part of the heat evolved in combustion is converted into light.

An insect exhibition is to be held in Paris this year from July 1 for just three weeks, under the auspices of the Central Society of Agriculture and Insectology. It will include (1) useful insects; (2) their products, raw, and in the first transformation; (3) apparatus and instruments used in the preparation of these products; (4) injurious insects and the various processes for destroying them; (5) everything relating to insectology.

At a German ultramarine manufactory, managed by a pupil of Liebig, the director has observed that for forty-four years none of his workmen have ever suffered from consumption. He attributes their immunity to the fact that the process of manufacture involves the constant production of sulphurous acid, by the burning of sulphur. Accordingly he suggests a new method of treatment for consumptive patients, by bringing them into an atmosphere moderately charged with sulphuric acid.

A correspondent of the British Medical Journal states that he has found the application of a strong solution of chromic acid three or four times, by means of a camel's hair pencil, to be the most efficient and easy method of removing warts. They become black and soon fall off.

A man breathes about eighteen times a minute, and uses 3,000 cubic feet of air per hour.

Coal tar sugar is the latest discovery. Its chief advantage over other sugar is its superior sweetness.

VARIETIES.

A girl just returned to Hannibal, Mo., from a Boston high school, said, upon seeing a fire engine at work, "Who would avar have dreamed such a very diminutive-looking apparatus would hold so much wattah!"

"Oh, dear," exclaimed Mrs. Fender, when she read of the disaster of the City of Brussels, "and I was going to buy a new carpet in the spring, and I suppose this will make them awfully high."

The best and highest praises are those we evolve—not those we receive.

AYER'S PILLS.

A large proportion of the diseases which cause human suffering result from derangement of the stomach, bowels, and liver. AYER'S CATHARTIC PILLS act directly upon these organs, and are especially designed to cure the diseases caused by their derangement, including Constipation, Indigestion, Dyspepsia, Headache, Dysentery, and a host of other ailments, for all of which they are a safe, sure, prompt, and pleasant remedy. The extensive use of these PILLS by eminent physicians in regular practice, shows unmistakably the estimation in which they are held by the medical profession.

A sufferer from Headache writes: "AYER'S PILLS are invaluable to me, and are my constant companion. I have been a severe sufferer from Headache, and your PILLS are the only thing I could look to for relief. One dose was sufficient to relieve my bowels and free my head from pain. They are the most effective and the easiest pills I have ever found. It is a pleasure to me to speak in their praise, and I always do so when occasion offers."

W. L. PAGE, of W. L. Page & Bro., Franklin St., Richmond, Va., June 3, 1882.

"I have used AYER'S PILLS in numberless instances as recommended by you, and have never known them to fail to accomplish the desired result. We constantly keep them on hand at our home, and prize them as a pleasant, safe, and reliable family medicine. FOR DYSPYPSIA they are invaluable." J. T. HAYES, Mexia, Texas, June 17, 1882.

The Rev. FRANCIS B. HARLOWE, writing from Atlanta, Ga., says: "For some years past I have been subject to constipation, from which, in spite of the use of medicines of various kinds, I suffered increasing inconvenience, until some months ago I began taking AYER'S PILLS. They have entirely corrected the costive habit, and have vastly improved my general health."

AYER'S CATHARTIC PILLS correct irregularities of the bowels, stimulate the appetite and digestion, and by their prompt and thorough action give tone and vigor to the whole physical economy.

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists.

YOUNG, OLD, AND MIDDLE-AGED. All experience the wonderful beneficial effects of Ayer's Sarsaparilla. Children with Sore Eyes, Sore Ears, or any scrofulous or syphilitic taint, may be made healthy and strong by its use. Sold by all Druggists; \$1, six bottles for \$5.

HONOR TO WHOM HONOR IS DUE. HOLMAN PAD COMPANY, Halifax, N. S. WALLACE BRIDGE, Cumberland Co., 17th February, 1882.

GENTLEMEN,—I have much pleasure in informing you of the benefit I have received from wearing one of your Pads. I was induced by a friend, last December, to give one a trial. Since then my health has improved so much that I have gained twenty-two pounds in weight. Under these circumstances, I feel that I am obliged, not only to you but to every person suffering as I did before I commenced to wear your Pad, to endeavor, as far as I possibly can, to help to place such a remedy within the reach of every sufferer. Yours truly, LAWRENCE MCKIN, Postmaster.

Advice free. Pads of all descriptions sent free by mail on receipt of price. HERRING COVE, April 8, 1882. HOLMAN PAD COMPANY, 119 Hollis St., Halifax.

DEAR SIR,—My wife has been ill for about THREE YEARS, and attended by the best physicians without receiving the least benefit therefrom; but since wearing your Pads, she is QUITE WELL. With deepest gratitude and with the view of benefiting others, I remain, Yours obediently, JOHN KEATING.

April 19. HALIFAX STEAM DYE WORKS, 566 Upper Water Street, (Opposite H. M. Naval Yard) Established 1871.

JOHN HUBLEY, Proprietor. COATS, Pants, Vests, Shawls, Saques, Dresses, Clouds, Curtains, Table Cloths, Cashmere Shawls, &c., Cleaned and Dyed to look like new.

Silk Ribbons, Scarves, Crapes Shawls, Satan Neckties, &c., Dyed all Colours. FEATHERS DYED AND CURLED. Gents Garments cleaned and pressed. Goods damaged by fire or water, faded or soiled, Coats Dyed to look like new.

Mourning Dyed at the shortest notice. Gents Garments and Ladies Dresses, all wool, Dyed and Pressed whole, without ripping.

AGENT—MISS CAROLINE LAWSON, 123 Barrington Street, opposite St. Paul's Church. JOHN HUBLEY, 566 Upper Water Street, Cheapest Place in the city for Dyeing. Oct. 12.

TO DR. BENNET AND LEWIS, 119 HOLLIS ST., HALIFAX.

DEAR SIR,—I desire to express my feelings of profound gratitude to you who have helped me so much by the use and application of your wonderful medicine known as your Absorbent Pads and Plasters. I was sick about two years, and spent a large sum of money with Physicians but received very little benefit until I tried your Absorbent treatment. When I commenced using it this summer I could scarcely walk across the floor, and now I can walk a mile at a time, and attend to household duties much better than I could before and feel only too glad to recommend this truly great treatment to any person or persons who may be afflicted as I was. You are at liberty to make any disposition of this note you may deem proper. MRS. R. HIBBARD, Hebron, Yarmouth.

This treatment can be applied effectively without interview where full particulars of case are sent by letter. Nov. 21.

30 YEARS!

Important trial of THIRTY YEARS decided, and a jury of half a million people have given their verdict that MINARD'S LINIMENT!

Is the best inflammation allayer and Pain destroyer in the world. 500 Medical men endorse and use it in their practice, and believe it is well worthy the name, 'KING OF PAIN!'

\$100 will be paid for a case it will not cure or help of the following Diseases: Diphtheria and Rheumatism; Scalds, Chills, Blains, Galls, Boils, Sprains, Lumbago, Bronchitis, Burns, Toothache, Broken Breasts, Sore Nipples, Pelons, Stings, Frost Bites, Bruises, old Sores, Wounds, Earache, Pain in the Side or Back, Contraction of the Muscles.

There is nothing like it when taken internally for Cramps, Colic, Croup, Colds, Coughs, Pleurisy, Hoarseness, and Sore Throat. It is perfectly harmless, and can be given according to directions without any injury whatever.

A Positive Cure for Corns and Warts, And will produce a fine growth of Hair on bald heads in cases where the Hair has fallen from disease, as thousands of testimonials will prove. A trial will convince the most sceptical that the above is true. Send to us for testimonials of distinguished men who have used.

MINARD'S LINIMENT And now have a beautiful crop of Hair and hundreds who have used it are willing to swear that by the use of Minard's Liniment they have obtained a new growth of Hair.

W. J. NELSON & Co., Proprietors, Bridgewater, N. S. Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax. Feb. 14.

A SERVANT WANTED.

Enquire at the CHRISTIAN MESSENGER Office, 71 Granville Street.

Paper Hangings

AT WM. GOSSIP'S, UNITED SERVICE Book & Stationery Warehouse, NO. 103 GRANVILLE ST., HALIFAX, N. S.

ROOM PAPER

This season are very attractive. They are in time to escape the additional protective duty imposed by the Dominion Government, and will be sold at correspondingly low rates.

SOLD WHOLESALE

by the bale of four or five hundred rolls, about twenty patterns in a bale, from 6 cts. a roll and upward. Send to William Gossip, No. 103 Granville Street, Halifax, N. S. March 22.

1872 MUSIC CARD. 1883

The Gates' Organ and Piano Company, (Limited.) Capital \$60,000—Encourage Home Enterprise.

Prof. C. E. Gates, President; W. J. Gates, Manager; G. O. Gates, Superintendent. FACTORY, TRURO, WAREHOUSES, HALIFAX & TRURO, N. S.

FOR SALE.—Pianos, Organs, Music Stools, Sheet Music, Music Books, and all kinds of Musical Instruments. Pianos and Organs fully warranted. "SUDDS" Famed 100 page Organ Instructor only \$2.50. New 300 page Piano Instructor only \$3.50 and \$2.00.

The Musical Journal published monthly by the Company, (120 pages New Music). Price only 60 cents per annum. Jan. 31.

EDITORIAL NOTICE

BUDS & BLOSSOMS, so as to end the seventh year with an enlarged list. Buds and Blossoms and Family Greetings as a magazine for church and home must win its way both on account of quality and price.

See what others say! Buds and Blossoms is the title of a neat and attractive illustrated religious monthly magazine, published in Halifax, N. S., and edited by Rev. J. F. Avery, pastor of the Third Baptist Church of that city. It is now in its seventh volume, and does credit to both publisher and editor. It is such a periodical as will prove a blessing in any family where it is taken and read.—N. Y. "Watch Tower."

"J. F. AVERY, of Halifax, editor of BUDS & BLOSSOMS, sent us a copy of his magazine. We are very much pleased with it. It is a nearer approach to the English magazines of the same class than anything published here. Its ILLUSTRATIONS are good and its reading matter such as must do good. We wish it success.—"Canadian Baptist."

Fully Illustrated, 38 pages, price 75 cents a year, specimen for a 3 ct. stamp. May 30.

72 A WEEK. \$12 a day at home easily made. Costly outfit free. Address TRUE & Co., Augusta, Maine Sept. 29, 1880.

CHRISTIAN MESSENGER

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All kinds of JOB PRINTING

Executed with neatness and despatch BOOKS, PAMPHLETS, CIRCULARS, BILL-HEADS, POSTERS, Business Cards

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At reasonable prices. Sunday School Headquarters.

BRITISH AMERICAN BOOK AND TRACT SOCIETY, Depository, 117 Granville St., Halifax, Secretary and Superintendent of Colportage, A. N. ARCHIBALD.

Ample supply of the best and most popular Sunday School Books published. HALF PRICE—Books of Religious Tract Society, London; STRONGEST BINDING, SUPERIOR TYPE. Sold both through the Depository and the Society's Colporteurs in lots to suit the Schools.

50 Volumes for from \$6.00 to \$8.00. The Committee have been selecting from the leading Publishing Houses of Great Britain and America for 15 years the choicest S. S. publications, and have made a specialty of Libraries, Periodicals, Lesson Helps, Cards, etc.

PELOUBET'S SELECT NOTES ON INTERNATIONAL S. S. LESSONS, postpaid \$1.25. HACKETT'S COMMENTARY ON ACTS, edited by Dr. Hovey, of Newton, postpaid, \$2.

People's Home Mission Agency. The Society has been in operation 15 years. Colporteurs to the number of 102 have been employed, who have distributed Bibles and good books worth \$141,236 by sale, and books and tracts valued at \$10,061 by grant. Total grants by the Society, including those from Depot, more than \$16,000 worth. Time served by the Colporteurs equals that of one man for 142 years. Labrador, Newfoundland, Cape Breton, P. E. Island, Nova Scotia, New Brunswick, and a portion of Quebec have been explored. There have been found 1,525 families without God's Word; 2,682 families with no other religious book; and 2,545 families who habitually neglect attending any place of worship. The 26 Colporteurs employed in 1882 performed labor equal to that of one man for 12 1/2 years; found 205 Protestant families without Bibles; 279 with no other religious books, and 873 families who never enter the House of God. They sold books worth \$13,333, and made free grants to the value of \$313, and they made \$1,679 family visits, and held 625 religious meetings.

The books circulated are sound and good, teaching the ruin of man by the fall, REGENERATION by the Holy Spirit, and REDEMPTION through our Lord and Saviour Jesus Christ. They are eminently designed to spread abroad Divine truth, and they are accepted by those that in every place call upon the name of the Lord. They give no uncertain sound upon the essential doctrine of the Cross; justification through the blood of the Redeemer, holiness through the sanctification of the Spirit, and complete redemption through God's grace alone. Books and tracts designed especially to awaken the impatient and point to Jesus are imported in great numbers. Almost 10,000 "Come to Jesus" were distributed last year.

The prayers of all God's people are earnestly requested for the Spirit's power to accompany the reading of the books and the evangelistic efforts of the Colporteurs. A copy of the last Annual Report, giving much interesting information and copious extracts from the Colporteurs' reports, will be sent on application to the Secretary.

American Baptist Publication Society. As advertised last year, we continue to order the publications of the above Society upon which we allow a discount of fifteen per cent., excepting periodicals, from the catalogue prices. As compared with the issues of the British houses these books are expensive. Catalogues will be supplied upon application, and those ordering can decide for themselves.

The Psalmist, published in the United States for 85 cents, we continue to sell for 75 cents. From our Depot and through Colporteurs about 5,000 Psalmists have been already sold.

Donations to Dec. 31st, 1882, in aid of Colportage, \$40,127; amount paid by Society to Dec. 31st, 1882, for Colportage, \$63,250.

Patronize the Depository and thus aid Colportage, to which all accruing profits are applicable. Jan. 31.

CARD.

BEING in possession of a valuable remedy for Asthma, Hay Fever, Phthisis, Bronchitis, and all difficulty in breathing, I have consented after numerous solicitations to make it known. Any individual so suffering can get valuable information by addressing

REV. G. FRED. DAY, Musquodoboit Harbor, N. S. May 9.