

Mothers and daughters of all ages are cordially invited to write to this department. Initials only will be published with each question and its answer as a means of identification, but full name and address must be each letter. Write on one side of paper only. Answers will be mailed direct if stamped and addressed envelope is enclo

given in each letter. Write on one side of paper only. Answers will be mailed direct if stamped and addressed envelope is enclosed.

Address all correspondence for this department to Mrs. Helen Law, 78
Castle Frank Rcad, Toronto.

H.B.M.:—1. For your boys of eight, eleven and fifteen years of age, the following books are recommended: "Lorna Doone," by Blackmore; "Story of Great inventions," by E. E. Burns, "Legenis of King Arthur and His Court," by F. N. Greene; "Old Grest Stories," by Jas. Baldwin; "Adrift on an Ice-pan," by Dr. W. T. Grenfel; "David Edwingstone," by C. S. Horne; "The Boy's Nelson," by H. F. D. Whecley: Lives of Poor Boys More and Heroines of English History," by A. S. Hoffman; "Plutarch's Lives for Boys and Girls," retold by W. H. Weston; "Ivanhow the fame "Remilworth," by Sir Walter Scott: "Tom Brown's Schooldays," or lead in flour before frying, it will keep in the jows and girls, "retold by W. H. Weston; "Ivanhow the fame or the drawn," by Miss Mulobk. There is also a splendid series of twenty volumes, for boys and girls from eight to four teen, of which a few titles are: "Birls That Every Child Should Know," "Water Wonders That Every Child Should Know," and "Kenilworth," by Sir Walter, Scott: "Tom Brown's Schooldays," and girls is "The Key to Jack Cannott of the subjects treated are: "Wild Should Know," "Water Wonders That Every Child Should Know," and girls is "The Key to Jack Cannott of the other subjects treated are: "Wild Should Know," "Fersumer House." It deals was a formation of the fall information in very readable form.

L.W.: "He wedding anniversaries are as follows: 1, Cottor; 2, Paper; 3, Klather; 4, Fruits and Flowers; 5, Irange and Flowers; 5, Irange and Flowers; 5, Irange and Flowers; 5, Irange and Willows and Willows and Flowers; 5, Irange and Flowers; 5, Irange and Willows and Willows

S.N.:—A mixture of one-half ounce
L.W.:—The wedding anniversaries
are as follows: 1, Cotton; 2, Paper; 3,
Leather; 1, Fruits and Flowers; 5,
Wooden, 10, Tin; 12, Silk and Fine
Linen; 15, Crystal; 20, China; 25,
Silver; 20, Pearl; 40, Ruby; 50, Golden;
To Diamond,
mond.
H.L.R.:—1. Milk dishes are the

Some folks try to make money out
of geese without water. Quite like
making bricks without straw. If nature has not provided you a stream
or pond fed by springs, make a pond

S.N.:—A mixture of one-half ounce
borax, one-half ounce glycerine, three
of saliva is used by Jesus to help fath:
the primitive belief in the healing virtue
of saliva is used by Jesus to help fath:
the point is that what heals comes
from him. Anointed—Read, "put his
elay on his eyes": the margin has an
improvement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals comes
an improvement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals comes
an improvement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals comes
an improvement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals comes
an improvement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals comes
and whitener, and glycerine and lemon
in provement on the text, but it misses
the true point.

To Wash—The word used implies
the washing of a part, here the face.
Pool of Silvais used by Jesus to help fath:
the point is that what heals c

garden is ready for them.

be safely planted in the open.

Building of Hotbed.

a southern exposure. The most convenient size is a boxlike structure six

feet long, so that standard three by six feet hotbed sash may be used. The frame should be twelve inches high

in the open ground.

ESSENTIALS FOR THE GARDENER

Construction and Care of Hotbed and Cold Frame-Both Are of

Greatest Assistance in Obtaining An Early Start

With Market Produce.

The gardener's greatest aids in raising early crops are the hotbed and the cold frame. The hotbed enables him to plant seed and produce seed lings long before the seed planted out of the manure inside the frame and cover it with the sash. After the heat has reached its maximum and has subsid-

of doors has begun to germinate. The cold frame enables him to get the seedlings produced in the hothouse seeds. Salest the seed to be seed to

seedlings produced in the hothouse gradually accustomed to outdoor conditions and to raise these into strong, sturdy planting stock by the time the houses.

Select the plumpest, freshest seeds obtainable. Use standard varieties and get them from reliable seed houses.

The cold frame is used in hardening | Keep the bed partly dark until the the plants which have been started in the hotbed or in mild climates for starting plants before the seeds can plants will need all the light possible,

Resetting plants from a hotbed into sun, to keep them growing rapidly. the cold frame gives them a better root system and makes them stockier tilating and watering with great care

The hotbed should be in some sheltered, but not shaded, spot which has a southern exposure. The most con-

feet long, so that standard three by fix feet hotbed such may be used. The six feet hotbed such that no manure inches high

valuable for transplanting are of prime importance. Too close n ground.

Building of Hotbed.

are of prime importance. Too close planting and too much heat and water cause the plants to become spindling.



INTERNATIONAL LESSON APRIL 1.

on I.-Jesus Gives Sight To The Blind-John 9. 1-38 Golden Text-John 9. 5.

Stop feeding geese twelve or fifteen hours before you kill them.

A few sickly hens will undermine the best-founded efforts at success.

Five to ten per cent. of the feed from dry land layers



Lots of folks down-town never know Grease the hands with tallow, what good bacon or ham it. yours extra good this year.

past months has been the means of sticks, and will keep indefinitely in keeping many pigs closely housed, and a cool place. Paraffine substituted for this has resulted in a great many cases beeswax makes a harder as well as a crippling amongst the swine herds cheaper wax. of this country

whey together with meals such as shorts, ground oats, barley, oil cake and the like are all highly suitable for the feeding of the sow at this season.

sank.

It is best to use scions which were cut very early this spring or last fall; they can be kept in moist sawdust or sank.

596 Dairy 3

The tested and approved cow, and the dairyman determined to do his best, make a winning combination. Above all things let no one pester the bull. Nine out of ten cross bulls are made so by wrong treatment on the part of some one who either does not think or who does not know any

With all our kindness let us keep a firm hand and a good stout staff on the

The cow due to calve soon should be fed only laxative, easily digested food.

Toughen your cows, not by exposing them to the raw spring winds and storms, but by daily exercise on sun-shiny days, and careful stabling when winds whisk around the corner.

Before we offer a farm for sale, we know it pays to slick it up and make it look the very best we can. Same way with a cow we want to sell. We can't expect men to take much interest in a rack of bones or a dung heap fast-ened to a pair of hind legs. Clean up. Put a good coat of flesh on your cow, and then offer her for sale.

## THE ART OF GRAFTING.

and later in the pear and apple. Do the grafting, if possible, on a mild day during showery weather. The neces-sary tools are a chisel, or a thickbladed knife or a grafting iron (with which to split open the stock after it is sawed off smoothly with a fine-tooth saw), a hammer or mallet to aid the splitting process, a very sharp knife to trim the scions, and a supply of good grafting wax. Saw off a branch at the desired point, split the stock a little way down, and insert a at each outer edge-taking care that the inner bark of the scion fits snugly and exactly against the inner bark of the stock. This—together with the exclusion of air and moist-ure until a union results—constitutes the secret of success. Trim the scions wedge-shaped, insert them accurately; the wedge should be a trifle thicker on the side which comes in contact with the stock's bark. Lastly, apply grafting wax. Each scion should be long enough to have two or three buds. The "spring" of the cleft holds the scion securely in place, and therefore tying should be unnecessary. If both in a cleft grow, one may later be cut

When grafting large trees it is best not to cut away too much of the tree at once; therefore a few secondary branches should be left untouched, A few sickly hens will undermine have water to swim in are more apt to be fertile than those which come from dry land layers.

Five to 'ten per cent. of the feed given in winter should be meat in some form.

Fresh cold air is the only thing that will keep the hens from freezing to death.

It will help to get eggs the year around if you thin out the overcrowded houses.

When chickens are permitted to roost in and about the stables, why should there be surprise when horses and cattle become lousy?

Or your own. Eggs from geese that blind man who had no relatives to support him.

In will man who had no relatives to support him.

No. No.—For of course the fact that he could see, with then disproved identity.

It went away—As with the ten lopers, faith was tested by bidding him proper respect.

Illiteracy should be fought as a disease. It is. It is a possession which not only keeps the individual inert but makes for a lower degree of efficiency in the social body. Composition and about the stables, why should there be surprise when horses and cattle become lousy?

In your own. Eggs from geese that blind man who had no relatives to support him.

On No.—For of course the fact that decould see, with then disproved identity.

In Went away—As with the ten lopers, faith was tested by bidding him leave the Healer's presence.

25. Cast him out—See verse 22 and the remainder the next. How the makes for a lower come at the could see, with them disproved identity.

In Went away—As with the ten lopers, faith was tested by bidding him proper respect.

So read, beyond doubt. Since this great title refers tacitly to future judgment, there is special significance in verse 39 in this connection.

37. He if it is—Compare John 4. 26.

38. Worshiped—Jesus accepts a reverse with angles and the remainder the next.

You can't graft, a pear or an apple judgment, there is special significance in verse 39 in this connection.

38. Worshiped—Jesus accepts a reverse was a few individual propers.

You can't graft, a pear or an apple judgment, th

wax will be found satisfactory: Melt together until thoroughly mixed four pounds of resin, two pounds of bees-wax and a pound of tallow. Pour this mixture into a vessel of cold water. Make when the wax is cool pull it like tafours extra good this year.

The constant cold weather of the last months has been the means of sticks, and will keep indefinitely in

Here is a substitute for grafting of this country.

It is essential that the brood sow be fed a well-balanced, succulent, nutritious, milk-producing ration while suckling the litter. Dairy by-products, such as skim-milk, buttermilk or duty, put it on good and thick and fill all the cavities smoothly. Then take cloth, tear it in strips, wind it around the putty and tie it with



Conducted by Professor Henry G. Bell.

The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops

Address all questions to Professor them, or care of The Wilson Publishing Company, Limited, To-ronto, and answers will appear in this column in the order in which they are received. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.

Question—M. P.:—I have purchased two tons of ground limestone to experiment with. How, when and where shall I apply it to get best results? I intend to sow oats, barley, corn, sugar-heets, clover and when the state of the stat beets, clover and wheat. The land same as you give whole milk to the is all under-drained and fall plowed seeding both the young barley and soil, good clay loam. Intend to sow barley on corn stybble land disced ent as they are in good feeding of live-

should lies right between one and three thoroughly disc the land but do not apply limestone and seed to barley and Answer:—Beans should do well red clover. On acre No. 3, apply the upon spring plowed sod, if after plow-remaining 1000 lbs of ground limeing great care is taken to thoroughly stone and disc up the land in preparadisc and harrow the seed-bed, and postion for the grain seed. Just before sibly if the ground appears to be too seeding time, or a week or ten days lose to roll it and follow with a harafter having worked the limestone into rowing. The point is that the turn-the soil, apply 200 to 300 pounds of a fertilizer analyzing 2 to 3% ammonia the seed-bed too loose and actually inand 8 to 10% available phosphoric jure the water supply around the acid. Hyour seed-drill has not a fertilizer drilling attachment, scatter the ded by thoroughly working the seed-fertilizer as evenly as possible over the bed into a compact but still mellow

ley, be sure to note the earliness with which it ripens on each plot and the beans and to pick out 100 which it ripens on each plot and the beans and lay them between a damp weight per bushel of the grain when it is harvested. Also note how successful the great always after they have been prepared

when in the spring the sap begins to move in the stock, be ready; this occurs early in the plum and cherry, and later in the pear and apple. Do the grafting, if possible, on a mild day during showery weather. The necestary tools are a chisel, or a thick should lies right between one and three bonders and would lies right between one and three bonders and would lies right between one and three bonders and would the common the second are which as not been worked for quite a while. Would row the beans with a clover. On the second are which should lies right between one and three bonders.

acre and thoroughly harrow it into the form.

ground. Then sow your barley and The general rule, in sowing seed, is acre and thoroughly harrow it into the ground. Then sow your barley and red clover as before.

At harvest time weigh the results from the three individual acres separately and you will have a clear demonstration of,—first, the value of the lime, second, the value of the lime and fertilizer. Besides weighing the barley he super to note the earliness with injured beans and to pick out 100 cessful the grass and clover seedings beans after they have been prepared as described, and if at the end of a as described, and it as do not sprout week or ten days they do not sprout strong and show considerable vigor, soil sourness and is not essentially a strong and show considerable vigountfood. When you have limed the you will do well to obtain new seed.

## (\TorseSense\tag{)

Chronic indigestion is indicated by the following symptoms: Unthriftiness, capricious appetite, increased thirst, irregularity of the bowels, dry, staring coat, hide bound, sometimes slight, colicky pains.

If due to imperfect mastication have teeth attended to. Give purgative as 1½ million germs of one sort and followed by a dram each, ginger, generation, and a recent examination of tian, nux vomica, and bicarbonate of clothes sent to a certain number of soda 3 times daily, and food of first- dry cleaners in a city which had been

class quality. -Increase the feed gradually, and

When the hair begins to shed, the heavy coated horses should be clipped.
When not at work, have a blanket handy to throw over the clipped horse and he will not take cold.

There will be no delays in the spring work if the work teams are properly prepared at the start.

Gradually toughen up the horses that have been standing in the stable. A poor collar hurts worse than a heavy load. Adjust the traces to the length Adjust the traces to the length of the horse. Get your horse as near as possible to the load he is to pull. Mud-spattered harnesses on a clear

which is cleaned and oiled often

bran mash



are not doing well, there is no mystery about it. Remember parasites, in-

## Health

Clean Clothes and Heaith.

A spoonful of dust contains as many Give purgative as 11/2 million germs of one sort and through a serious epidemic in the give regular exercise at some kind of suits a quart and a half of dirt was taken in which there were sufficient disease germ to wipe out a smi

> Statistics show that sickness and deaths in the Public schools of America is three times as prevalent during the second term of the school year as the first, and allowing for other causes like the bad weather usually causes like the bad weather usually common during January and February a great factor in this high percentage is conceded to be that whereas most children begin the year with new clothes, by the middle of the winter they have become the work of the content of the state of the s they have Become thoroughly

Mud-spattered harnesses on a clear day look as if something were wrong. Wash them up after the spring storms and bad roads are over, and keep them washed. A harness that is permitted to go dirty will not last so long as one which is cleaned and oiled often.

With dust, and germs are spread from child to child.

A little economy practised in other parts of the house, the denial of some accustomed luxury would provide for the dry Cleaning of the older children's suits at least once during hich is cleaned and oiled often.

A horse that does not eat when food before him is wrong somewhere, ook at his teeth. Watch all danger under 9 years should always wear clothes when may be washed at home grals. with soep and water and so far as possible these are best made of cotton. But serge of a good quality made into kilts for girls and sailor suits for boys is an economical and all round satisfies. is an economical and all round satisfactory school clothes material. Three Where a flock or individuals in it for best, are liberal winter provision.



frame should be twelve inches high in the back and eight inches on the front. This slope is for the purpose of securing a better angle for the sun's rays and should be faced toward the south.

The pat only must collect but also but also permanent structure suitable for holding plants over winter will require a pit eighteen to twenty four inches the plants.

Crisis in Plant Life.

dew.

The cold frame, so useful in harden

exclusive of the direct rays