Efficient Farming

A ATTACHMENTS FOR ARM MACHINERY.

...on, who lives not far from ... that when buying new ... it pays to order the extra ...

...sted this idea out when he ... his present farm in 1921. ...way in the shed, he found ...nders, each fitted for a ...kind of grain, and in home-... for sacking. The ar-... did not suit Burden, so he ...w grinders to the neighbors, ...he sacking device and order-...der with modern improve-... As extra equipment he pur-...three sets of burrs, a cob-...ut device, and a ... ele-... an additional cost of $15. ...ion prepared to grind corn, ...wheat and other feeds on ...ne, and within the next two ...nded a crop which would ... The former owner said his ... a week with the simple-...ter on, he bought an extra ... for grinding ... and ...hour.

...me afterward, he hauled ...f farming-mill with a single ...r, add ordered extra at-... Last he now grinds and ...ley, beans, buckwheat, bar-... as well as fine ... seed ... for home use and market. ...ly one of the extras was a ... which he connected a mill ...gasoline engine, thus doing ... the job of turning by hand. ...rangement saved ... for ... deal of ... writing.

...s encouraged," says Burden, "I ... the stock of machine ... and ...ancher it, such as ...der, ...ter, etc., had ... used ... days each season. ... I searched ... near ... mechanics, and ... most ...

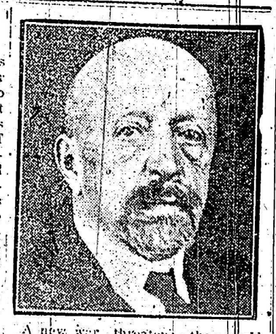
...cination for Poultry Diseases.

...was about three years ... vaccination of poultry for ... of disease was brought to ... of the poultry world, it ... completed as far back as ... by Pasteur, in ... That was the ... at ... produced by use of a special ... against a poul-... disease, and was the basis ... work in this field. The ... of which, at the ... seen in the prevention ... of "shaky" disease of ...

...cine was heard of this ... in 1911, when a ... reported an epidemic ... of the most dead-... which ... affected ... diseases. ... of thousands of ... fully ... trials, which ... fully ... effective accompanying ... and in this way the ... could be ... ation. It was about ... after the trials were ... veterinarians, that the ... first offered vaccination ... for ... declaring it "offered ... for the prevention and ... roup."

... experiments brought ... following conclusions: That ... bacteria is non-poison-... immediate deaths result-... vaccination; that it does not ... production, egg fertility ... quality of the fowl. But it ... tested to prevent the spread ... among flocks, thereby ... ...e, diphtheria, canker, etc., ... after-effects of cold ... was not recommended ... ...tion, was known to be ... the conviction was firm ... ...ds of fowls can be saved ... resorting to its use. It ... brought out that it does ... a person to be skilled in ... of work to administer ... K. B."

...sachetts that resolve ... is used.—Shaw.



A new war threatens the world, which may ultimately result in the complete extermination of the human race, is the opinion of Dr. L. O. Howard, chief of the U.S. Bureau of Entomology. The battle is between men and insects.

Bedtime Stories

Hurry, Sleeping Pussy Willow.

Pussy Willow, Pussy Willow, sleeping
all the winter through,
We are longing for the spring, me
with its warm wet winds—and
you.
Do not keep us children waiting, see,
the time is drawing near.
Pussy Willow, Pussy Willow, won't
you try to hurry, dear?
Pussy Willow, Pussy Willow, in the
hollow where you sleep
Rough Jack Frost keeps guard at
nighttime when your rest is
still and deep.
Don't you hear us children calling in
your dreams? We need you here.
Pussy Willow, Pussy Willow, won't
you try to hurry, dear?

Tinfoil Tightens Terminals.

Loose battery terminals may be tightened by using a thin sheet of tinfoil.

SUMMER OF FLOWERS AT SMALL COST

...living in the country ... of garden but find it ... have one because they ... of ground properly ex-... the farm animals, includ-...ry. Many a farmer's ...n discouraged after plant-... of flowers to find that the ... group of thrifty hogs have ... destroyed her work. It is ... that so worthy a desire ... thwarted by such an un-... cause. A flower garden, ... to any farm home and there ... no justification for neglect to ... the necessary fences suitable ... for its protection.

A garden, especially to a beginner, ... an indefinite thing, and many a ... young wife has been greatly aided by ... a kind neighbor possessed with gard-...ening experience. A writer in the "Flower Grower," for the information ... of a young neighbor who had come ... into possession of a pretty bungalow, ... outlined a list of things suitable for ... her forty foot lot. The list included ... plants, seeds and bulbs that made up ... a total cost of five dollars. Here is ... the list:

2 rose bushes at 75c each: 1 General McArthur, 1 Mad. Caroline Testout, $1.50.

5 perennial plants from Nursery: 1 Oriental Poppy 20c, 1 Polyanthus Primrose 20c, 1 Delphinium Belladonna 20c, 1 Pink Perennial Phlox 20c, 1 Early Yellow Chrysanthemum 20c.

Spring flowering bulbs as follows: 1 dozen Crocus, mixed, 25c, 4 Early Tulips, Kaiser Kroon, 25c; 3 Daffodils, Golden Spur, 25c; 5 Narcissi, Poeticus Ornatus, 25c.

Flower seeds as follows: Pansies, mixed, 10c; Sweet Peas, early Spencers, 25c; Giant Dahlias, 25c; Cobea Scandens, for back porch, 10c; Marguerite Carnations, 10c; Pink Snapdragons, 10c; Branching Asters, mixed, 10c; Giant Crego Asters, mixed, 10c; Man. Early White Cosmos, 10c; Giant Zinnias, 10c; Giant Calendula, 10c; Sweet Alyssum, trailing, 10c.

Total, $5.00.

The young wife and her husband prepared the beds with care and gave the garden water and cultivation all season. Their efforts were rewarded by a garden filled with fine bloom throughout the whole season. The list was made up in the autumn and therefore included the spring flowering bulbs. Had it been made in the spring, gladioli would have been recommended instead of the daffodils. The dahlia, aster and cobea seeds were planted early in boxes and later transplanted, as were the Marguerite carnations. The rest of the seeds were planted where they were to grow.

The following fall the young woman bought more spring bulbs, two more rose bushes, and a few shrubs and permanent vines, and more perennials. These with the annuals that had self-seeded in the beds, and with some gladioli, lilies and other plants secured from her neighbor's garden the second year, made their place look well established, and their home became a beautiful spot.

The list of plants in this garden were carefully selected, producing continuous bloom from the coming of the crocus in March, to the last rose, chrysanthemum and cosmos, which did not disappear until the summer was practically over.—Canadian Horticultural Council.

Highly-Prized Poultry Meats.

Those who have been fortunate enough to eat the meat of a canvasback duck have had a rare treat. The canvasback dines largely upon wild celery growing in the southern marshes. While there is a fishy flavor to most of the wild ducks and other sea fowls, this can not be said of the canvasback.

The meat of the Indian Runner duck is of superior quality, being fine in the grain, juicy and of excellent flavor.

French epicures greatly appreciate the high quality of the flesh of the Cayuga (a black duck), claiming the meat is of fine flavor. Notwithstanding that the Cayuga is the only pure American in the duck family, it is not in favor in our markets.

Geese have been used as table poultry for ages. The meat is not only delicious but very healthful. Germans relish the fat, and often eat it on bread in place of butter. Among orthodox Jews it is used as a culinary fat in place of lard. The livers of geese are highly prized by European epicures.

To persons afflicted with acidity of the stomach, a condition frequently brought about by an excessive beef diet, turkey meat is invaluable. The nutritive qualities in turkey and beef are the same. Beef has a tendency to stimulate the acid secretions of the stomach, and when there is an excess of acid, turkey meat counteracts the effects.

It is claimed turkey meat contains a greater percentage of proteid, or flesh-forming food than is found in beef. It is more easily digested, due to the fibre being shorter and yielding more rapidly to the digestive process.

The flesh of the capon has the tenderness of a pullet but a better flavor, and gives a greater proportion of white meat from the fact that the tender parts of the body develop more than in ordinary fowl. The capon is at its best when a year or 15 months old.

No poultry meat excels, if any equals, that of a half-grown guinea, split down the back, broiled and buttered. It is meaty, tender and of splendid flavor. The guinea fowl really is a wild bird, and is an excellent substitute for wild game, such as grouse, prairie chicken, quail, etc. —M. K. B.

Winds of Romance.

What romantic names are given to some winds, which are anything but romantic in character!

There is the Mistral, for example, the dry, cold wind that blows with considerable strength on the Mediterranean coast of France. Another violent, cold wind is the Bora, which those who have been much on the northern shores of Adriatic have experienced, much to their discomfort.

Then there is the Simoom, which is as scorchingly hot as the Mistral and Bora are cold. The simoom, in fact, is like a violent succession of gusts from a hot oven. It has proved a terrific enemy to travelers in the Sahara.

The Sirocco is much the same kind of scorching wind. A naval officer, describing an experience with this wind in the Mediterranean, says:

"We soon felt a sultry breeze, which conveyed innumerable insects into every crevice, and became so troublesome on deck that we were glad to retreat below, but in vain, for wherever the air reached, there they teemed in countless numbers, and our dinner was presently covered with them."

Romantic-sounding enough is the name Khamsin, but those who have encountered this hot, dry wind in the Egyptian plains do not have very pleasant memories of it.

The Harmattan is similarly unpopular among the inhabitants of Western Africa and those travelers who have been unfortunate enough to encounter this desert, dust-laden wind.

Fohn is the name of another dry, hot wind, which has an enervating effect upon the valley dwelling on the northern side of the Alps. The name of the Pampero has a glamor about it which belies it in reality. This fearful combination of violent wind, rain, thunder and lightning is only too familiar to the residents of Argentine and Uruguay.

Bathing in Their Clothes.

The interesting item of information that the Tibetan Lamas now visiting in England indulge in but one wash a year suggests a state of primeval savagery to our Western ideas of what is right and proper. But in various parts of the world strange customs prevail which to the practical British mind would be classed as sheer madness.

It is probably news to many that high-caste Hindus take their bathe with their clothes on! And yet it is a fact. Their religion compels them to have a bath daily. They will neither touch nor eat anything before having their bath. It is considered indecent to bathe naked, even within their own houses and a rich zemindar or a poor Burman obeys the same rule.

Men, women and children are generally seen bathing in open wells, tanks, or on seashores with dhoties on. A dhoty is a piece of white cloth about six to eight yards long, wrapped round the body. After the bath they first wear a dry dhoty round them and let the wet one slip from underneath, so that they neither expose their body nor let the dry cloth get wet. Even when travelling they manage to have their daily bath at stations where the trains halt for about twenty minutes.

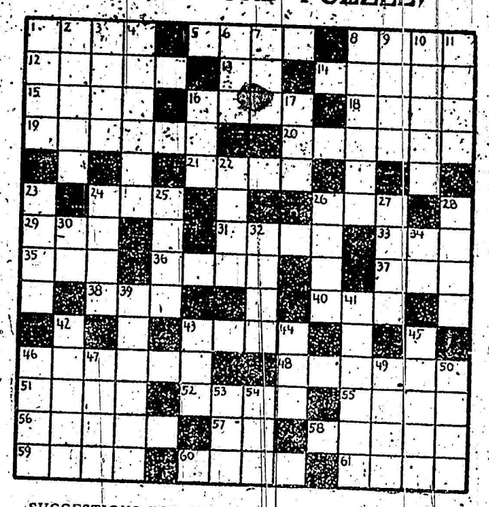
Most of the railway companies have wells near such stations specially for this purpose and the spectacle of this strange religious rite being carried out with unfailing regularity is one which causes Europeans to marvel at such zeal.

town for a fancy bracelet, and event-

Rubbish piles afford hiding places for rats, weasels, minks and other enemies, and should never be tolerated near the hen houses.

Ship only good goods. Grade both poultry and eggs carefully. Pack each grade separately and label accordingly. Use only clean boxes or cases. Musty cardboard fillers or dirty packing may injure the sale.

CROSS-WORD PUZZLE



SUGGESTIONS FOR SOLVING CROSS-WORD PUZZLES

Start out by filling in the words of which you feel reasonably sure. These will give you a clue to other words crossing them, and they in turn to still others. A letter belongs in each white space, words starting at the numbered squares and running either horizontally or vertically or both.

HORIZONTAL

1—Author of a famous elegy
5—Froth
8—A species of snake (pl.)
12—Pertaining to the kidney
13—Aloft
14—Purloin
15—A sacred image or picture in Greek church
16—Wiles
18—Narrow strip of fabric
19—Damper and cooler
20—Held together
21—Fruit of the pine tree
24—A medieval trading vessel
26—To cover
29—To rest at length
31—Singing voice
33—To equip
35—Over (poet.)
36—Western State (abbr.)
37—Before
38—Frequent (poet.)
40—One of the months
43—An excuse, or its grounds
46—Peanut (Southern)
48—To pass unnoticed
51—Solitary
52—A ship's jolly-boat
55—Girl's name
56—Illegal interest
57—Personal pronoun
58—Ancient Greek physician, "Father of Medicine"
59—A state of disorder
60—Seven days
61—One of the constellations

VERTICAL

1—A grating of parallel bars
2—To can again
3—Soon
4—A New Englander
6—Possessive pronoun
7—Pertinent, apposite
8—Modern province of Greece
9—Chair
10—A substance made from rags, wood-pulp, etc.
11—Used in a winter sport
16—A bow, an arch
17—Girl's name (familiar)
22—Egg-shaped
23—To whip
24—A Roman emperor noted for cruelty
25—Reality
26—Refuse matter
27—Any animal seized by another for food
28—Vast periods of time
30—Id est, Latin for "that is" (Abbr.)
32—A metal-bearing vein
34—Prefix, assimilated form of in
39—Fine filaments
41—To render tough by heating and cooling
42—A silly creature
43—To move with a lever
44—To make ill
45—Substance added to paint to make it dry quickly
46—Moody and silent
47—Burden
49—Sole, single
50—Girl's name
53—Reverential fear
54—Small

Poultry

Sprouted oats make an excellent poultry food. When sprouted oats are fed, whole oats can be left out of the scratch grain with advantage. In feeding whole oats, the hulls often cause impacted crops and death ensues. When the oats are fed sprouted no trouble along this line will be experienced.

In sprouting oats a temperature of at least fifty-five degrees is required. The growth will be more rapid if the higher temperature is provided.

Oats can be sprouted in the dark if the temperature is right. If sprouted in a dark room the top growth will be light in color, but one day's exposure to light and air will give the green color.

My method of sprouting oats is as follows:

The oats are soaked in water for twenty-four hours. An inch layer is then spread out in shallow trays or racks. The trays must have good drainage. If the drainage is poor the oats will mold and are then unfit for feeding to the birds. Twice a day the oats are sprinkled with warm water. In a week or ten days, depending on the temperature, of course, the oats will be three inches thick and will have a top growth of four or five inches.

A block a foot square makes a sufficient daily feed for fifty hens.

Engine Trouble.

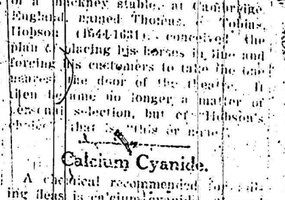
Little Ted, becoming very tired on the way home from church, begged his father to carry him.

"Oh, no!" argued dad. "A big two-and-a-half-year-old boy like you must learn to walk up like a man!"

Ted bravely trudged along for some minutes then began to pant and lag behind. Presently he called out, "Daddy, daddy! Better carry me, I'm about out of gas!"

Easy Brake on Wet Street.

When driving on wet streets the clutch should never be released except at the last moment to prevent the engine from stalling. Always apply the brakes gradually.



Origin of Hobson's Choice.

"Hobson's choice" is heard on every side, and some of our readers may be interested to know its origin.

During Shakespeare's and Milton's time it was the custom for gentlemen to ride home from the theatre on horseback, hiring the horse as we do a cab at a stand. Naturally, each one wished to have the best horse, and much confusion ensued while some poor animals were never taken. A university carrier and the first keeper of a hackney stable at Cambridge, England, named Thomas Tobias Hobson (1544-1631), conceived the plan of placing his horses in line and forcing his customers to take the one nearest the door of the theatre. It then became no longer a matter of choice or selection, but of Hobson's choice, that is, "this or none."

Calcium Cyanide.

A chemical recommended for killing fleas is calcium cyanide. Spread the material where fleas are trouble, some in the bedroom, dog-kennel, or wherever Mr. Flea parks himself. Use four ounces for 100 square feet of closed space or eight ounces for the same area of open space. Don't inhale the fumes, for they are poisonous.

The aggregate value of all field crops produced in Canada during the year 1922 was $996,257,900, an increase of $97,091,700 over the market value of the whole of the 1921 crop, according to the final estimate of the Federal Bureau of Statistics.

FOR HOME AND COUNTRY

What the Girls Are Doing.

Brampton—The Brampton Juniors have taken for their motto "Work for the good of others." Last Christmas they purchased clothing for two needy families. They have raised funds to furnish the waiting room of the Peel County Memorial Hospital; also had a towel shower for the hospital. During the year they gave the program at seven Senior Institute meetings, and had a debate with the Junior Farmers. They organized two softball teams; assisted at the County Field Day with the Junior Farmers; had a booth at the School Fair and gave the proceeds for prizes; gave a demonstration on "Afternoon Tea" in the Women's Institute program at the Canadian National Exhibition; served lunch at the Plowing Match, clearing $150; took an active part in the County Girls' Judging Competition. In November found them busy making a monogram quilt and packing apples to send to Northern Ontario. They are especially interested just now in the three months' course in Home Economics which is held at Brampton. They have also contributed to the Muskoka Hospital, and to gifts to several brides from among their members.

(A most creditable year's work.)

Fergus—The Fergus Juniors held a joint meeting with the Junior Farmers every second month, and their own separate meeting on the other months. They do considerable sewing and quilting at their regular meetings. Last Christmas they helped a needy family. They made gowns for Fergus Hospital, held a mammoth bazaar, contributed to the "Save the Children Fund," sold hockey work for the Institute for the Blind, took part in the Judging Competition and in the Wellington County contests in debating, public speaking, dramatics and choral singing.

The Sunday School Lesson

MARCH 8.

The Saviour on the Cross. Luke 23: 33-46. Golden Text—He that spared not His own Son, but delivered him up for us all, how shall he not with him also freely give us all things?—Rom. 8: 32.

I. THE CRUCIFIXION ANALYSIS. 33-38.

II. THE CRUCIFIED AND ... 39-43.

III. THE CRUCIFIED AND ...

INTRODUCTION.—The ... Jesus the Messiah is the ... the world's history and ... determining point in ... the soul's relation to God. ... dying, was conscious of ... preme work for the re... men, and Christian exp... subsequent ages has ... consciousness. The Cross ... a redemptive power. Be... souls of men from sin and ... and uniting them to God.

The Cross of Jesus Christ ... of the Christian salvation ... always stands between ... soul and the world's ... world's guilt, and ... new ideal of service and ... the Cross is also the ... Christian salvation ... spoke of making ... "many," and the Christ ... the ages has felt ... and safely trust ... tion. It knows ... that Jesus has ... peace and reconc...

It is only at the ... what sin is, and ... what God is. It ... see how God's pow... mankind. Christ ... St. Paul says, "... the wisdom of G...

I. THE CRUCIFIXION. 33-38.

V. 33. The Cr... a spot outside the ... which from its ... named "The Sk... vary). At a later ... of the city wall ... so that it is no ... Two criminals ... same time as Je... and one on his ...

V. 34. Those ... were Roman sol... hat they, dis... agony prays for ... give them, for ... they do." How ... these executioners ... their going at ... lots for Jesus' g...

V. 35. We are ... ment a picture of ... to the crucified. ... looking on, leading ... deputed perhaps ... cution is duly ca... Sufferer mocking ... He saved others ... self, if he be the ... God." These citi... Jesus in the w... from him for ever ... ing himself ... they do not see the ... divine love does ... itself always and ... It bares its breast ... ant thrusts that ... all in order to say ... not see this. ... divine words which ... this baptism (Mar... that they who bel... Jesus knows that ... complishing the w... hing to do.

Vs. 36-37. The ... diers follows. ... ignorant repetition ... ish rulers had said ... referring to him a ... laugh at him as ... political power.

V. 38. The title ... "This is the King o... in three languages ... major) was the lang... Greek was the uni... world-culture, Latin ... language of the Ro...

II. THE CRUCIFIED ... 39-43.

Vs. 39-43. We ... relation of Jesus ... the two thieves crucified by the side of Jesus joins in the mockery of the bystanders, and says: "If thou art the Christ, save thyself and us." The other, however, sharply rebukes him for raving, at this moment when he is expiating his sins, given way to godless railing. Some sympathy for Jesus, his meek and patient fellow-sufferer, moves the penitent thief to this reproduction of his companion's taunts. Nor does he end with rebuking his fellow. And at once he breaks out with a declaration of faith in Jesus, exclaiming that while he and his fellow are paying the just penalty of their sins, Jesus is innocent, and thus, accepting Jesus as the Messiah, he says: "Lord, remember me when thou comest into thy kingdom." His faith has its reward, for Jesus answers: "Verily, I say to thee, to-day shalt thou be with me in paradise." The penitent will enter into the company of the redeemed, as they wait for the final salvation.

Let us not forget what some ... has said about the two thieves: One is lost, so that no sinner may presume; one is saved, so that no sinner need despair."

III. THE CRUCIFIED AND GOD. 44-46.

V. 44. Now comes the last scene. From twelve to three o'clock a ... darkness falls all over the land, ... ture sympathizing with the Lord of nature in his dying hour.

V. 45. The rending of the temple veil, which hung before the Holy Place of the Divine Presence, signifies symbolically the transference of all religious interest henceforth from the Jewish temple to the Cross of Christ. It is to the Cross of Christ that we must now look if we are the disciples ...

V. 46. Jesus delivered his spirit into thy hands, I commit my spirit. This he did as the ... ...ivel, that of total ... surrender to God.

THE VEIL OF THE ... ...

A Lady of Christian ... will rather inside a church for common prayer and for instruction of God's word. The old Jewish path ... for worship in the open field ... the temple proper. The temple a ... building was not a ... place ... might assemble; it was a dwelling place for God. When ... ...d, or could, they turned ... towards the holy house. ...

The temple was built after the ... of the very simple houses men ... for themselves in early days. It ... ...sted of two rooms, an outer and ... The inner, or hinder room ... more private, was known as the ... of Holies. Apparently it ... in the primitive house, rather ... door opening to the ... to it, you had to go ... front room. Of course ... was dark; the Hebrews ... that their God dwelt in ... (1 Kings 8:12, R.V.), or perhaps ... rather in light surrounded by ... In the temple of one ... two costly curtains hung ... rooms as a simple partition, ...pling several paces in the middle ... leaving a narrow ... between the curtains ... high priest might ... room near the south ... the inner room near the north ... the temple. At that time the ... ...ary was quite ... ...ive presence of God ... The rending of the ... moment of our Lord's death ... ...ted in the Epistle to the Hebrews (chap. 10), as opening ... ever a way of immediate ... ...ness to God.

Hub Caps Vital.

Never run a car with a hub cap ... a cap is cracked. If cap do ... ...ill soon be destroyed.

Her Hope.

... there—"I expect ... bigger when I see him again" ... Suburb. "Much ...

Music in the Home

"The Advantages of Music in the Home"—First Prize Essay, "A"... class, ... Education Bureau for the Advancement of Music Competition—By G. Antonio Bea... Ste. Sainte Anne de la Pocatiere, Kam...

"Music cannot ... the spirit of ... Music is a universal ... multitude of the ... ple will thrill in ... national hymns, ... sod. Music speaks ... each one of us. ... of Orpheus, who ... beasts with his ... Everyone knows the ... characters also ...

Since music is ... must become ... a preponderant ... Music should be ... To those who are ... diversion to break ... their evenings, to ... the cares of the day ... its beauties, offers ... of inexhaustible ...

Good, wholesome ... by singing or music ... be far superior to ... that can be introduced ... Anything else is, in ... costly, tiresome, is ... loses its novelty and ... valued only by the few ... and is soon forgotten.

Music, because of its ... has none of these ... vantages of all kinds ... with singing and ... Those who study ... accustomed to breathing ... healthy variety of ... sured. Singing is the ... lives. Songs tell ... our griefs.

A musical instrument ... has the ... ties of permanence and ... stability ... very sight of one ... always ... quality of newness, and ... is beau... richness of tone often ... increas...

...years. Favorable ... make the purchase of one easy ... a wise economy ... as a diversion. The ... presented at the end of the year by ... considerable sum expended ... the most amount of profit. The memory ... ...ving pictures fades very quickly. Music promotes happiness in one ... Other diversions often cause ... ...uble in the home, bring about ... ...ses, disturb the family peace. Music ... ...ngs together the members ... ...mily, ensures harmony, produces ... ...ce. Music entertains while it ... ...ucts, associates the family in the ... ...ne thought, the same joy and the ... ...ne task. Music begets good ... ...ves away tiresome people, and ... ...kes families happy.

Happy families make prosperous ... ...mmunities. Music softens the man... ...rs, elevates the tastes, and refines ... intelligence of a people. Canadians are recognized as possessing a ... ...y pronounced musical temperament. By a more earnest fostering of ... ...sic in our homes, our country will ... ...duce famous artists through whom ... ...nada will win wider appreciation.

Let us cultivate music. It is a harmonious language, a fugitive art, that charms the ear, and stirs the mind to ... ...erest, "a science with its numbers ... its formulas," the superiority of ... ...ch over all other species of diver... is indisputable. He who loves ... ...sic finds in it the source of the ... ...est and purest delights. He does ... merit Shakespeare's perhaps ex... ...erated reproach.

"The man that hath no music in himself,
Is not moved with concord of
sweet sounds,
for treasons, stratagems, and
spoils."