MINNIE MAY'S DEPARTMENT.

MY DEAR NIEGE

We may not have much sunshine during these of winter days, but what we have I trust you are see enough to let into your homes. It acts as a nic, and has a very beneficial effect not only on a feelings, but also on our appearance. To shut a sunlight out of the living rooms is a mistake ten made by those thoughtless people who set a gher value on their carpets and cushions than on air health.

Sunshine in our homes leads by easy transition sunshine in our hearts, and the latter helps us to sumph over all that may be annoying or decessing.

In no part of the house is a bright, sunny appear-ce more needed than in the kitchen. In very any homes but little thought is given to making a kitchen an attractive apartment, and yet the any housewife has, perhaps, to pass the whole day are, and sometimes cannot leave it even after

interest and sometimes cannot leave it even after ightfall.

As a general rule, in most country homes the stoken is quite spacious, with ample room for a few maloris in addition to the necessaries. Not long five I saw a kitchen—it was in the country—which thought very copy and attractive. The floor was a maple, a light and a dark board being paced almanately, and was oiled. The walls were painted bright but delicate shade. Pretty lambrequing the day the bright sunshine ould stream into the room. In the lower part of the room stood the range, and a few feet from it a roce pump, which brought pure fresh water from the river that flowed near by. Quite close to the name was long cupboard, reaching from the floor of the ceiling, divided into four compartments, in which there was space enough for almost everyaing necessary to the kitchen. There was also a detable and washstand. Behind the range was a set stairway, under which was a closet; there the cood-hox (with a board across the top to hold the rater palls) was kept; there were also a couple of helves and some hooks which could be utilized in arround ways. No kitchen utensils were in sight. The upper part of the room was furnished with large table, some chairs, an easy chair, a sofa tovided with a couple of soft cushions, and a sewing machine. Some good pictures were artistically reanged on the walls, and close to the sofa hung a restry contrivance designed for holding books or the room of the walls, and close to the warm sunsans, and a clock ticked away industriously, the entire presenting a most inviting and restful appearance. I consider everything that can give comfort or reat, or save unnecessary steps, should have a place in the kitchen.

Do not think that you must do just as your grandmother did, because times have changed very materially since her day, and you have neither her trangely nor her endurance. Ward off premature gray hairs and wrinkles by learning the best methods of working and by taking! judicious rest.

How can a tired, wornout woman be a pl

of which depends the health of their families?
Why should we be deprived of the pleasant touches which pictures and flowers give, or the few moments' rest on a sofa or rocking-chair which may be snatched at intervals?

It is not an impossible thing to give sufficient attention to the cooking of the dinner and occasionally get a few fresh thoughts from a favorite author, or keep in touch with the outside world by reading some good magazine. Farming is a profitable and honorable occupation, but those who think they can get along without reading some good agricultural magazine which pertains to their particular line of business will assuredly find themselves behind the times and distanced by their more wide-awake neighbors, who, by systematic reading, are aware of all the latest and best methods of doing their work, and thus are able to accomplish readily what might otherwise have proved an arduous undertaking.

MINNIE MAY.

Domestic Science.

"This new Domestic Science points towards the coming of a much better mental and spiritual state, a purer social life, and promises to be a mighty factor in elevating the masses. It is lifting work from the plane of slavish drudgery and inspiring it with mind and thought. We must all have our daily bread, and the feeding of the family with good bread—the food which nourishes and sustains these bodies—is a sacred task."—Rev. Calvin Keyser.

THE DIGESTION OF FOODS.

Before speaking of the digestibility of different foods, it will be well first to learn a little about the process of digestion; for the digestibility of foods is affected not only by the changes they undergo in cooking, but also by the manner in which they are

Digestion is the term applied to the changes effected on the food in the alimentary canal, and is partly a mechanical but principally a chemical process. The mechanical work performed by the teeth

in mastication is the first process the food undergoes, and is important, because the more finely it is divided, the more easily will the digestive fluids permeate the mass and bring about the chemical processes which change its composition so that it can be absorbed into the system.

Of the digestive fluids the first is the saliva in the mouth. This is an alkaline fluid containing a ferment (ptyalin), and acts on the starches and sugars, changing them to dextrin. It also has the function of drawing out the gastric juice, which is the second digestive fluid with which the food comes in contact. This is of an acid nature and acts on the nitrogenous foods in the stomach, changing them to peptones, and on the fats, changing them to oils: also curdles milk, changes cane sugar to grape sugar, and checks putrefaction.

The next digestive fluid—the pancreatic juice—contains three ferments: (a) pancreatic diastase, which digests starches which were not changed by the saliva; (b) trypsin, which acts on albumen: (c) steapsin, a fat-splitting ferment. The bile acts with the pancreatic juice in emulsifying fats, and stores up starch and sugar in the form of glycogen for future use as the body requires for heat or work.

Starchy foods by thorough mastication become well mixed with their digestive agent, the saliva, and so the chemical change takes place which makes them soluble. They are changed to dextrin and then to dextrose or grape sugar before being absorbed into the system. Those foods which appear to require very little mastication often cause trouble when this process is slighted. For instance, breakfast cereals are said by some persons to be "difficult of digestion," and to "cause acidity of the stomach," when perhaps the fault lies in improper methods of cooking and esting. Physicians urge that porridge should be well cooked, and eaten with a hard roll or crust of bread, which compels the teeth to do their work. Fruit also forms a suitable accompaniment to certain grains and starches. The reason that all starchy f

developed to receive them until the teeth make an appearance.

The nitrogenous foods when finely divided by the teeth are more easily dissolved in the stomach and a larger proportion can then be assimilated. One part of pure food material should be accompanied by about four parts of waste material. For invalids it is well to use foods which tax the digestive organs as little as possible; but in the diet of strong, healthy persons predigested foods have no place, for "inactivity" is just as fatal to the digestive organs as to other parts of the body. Persons doing indoor work, with little or no opportunity for outdoor exercise, require nourishing foods, but of more easily digested sorts than those which would properly belong to the diet of a man doing hard, muscular labor, with an abundant supply of pure oxygen.

muscular labor, with an abundant supply of pure oxygen.

One lady despairingly complained that she "wanted her little child to have the most nourishing kinds of food, but he loathed meat and brown bread and would not even look at baked beans." She had a little knowledge of the composition of foods, which was proving a "dangerous thing" to her delicate child's welfare, but had failed to take into account the item of digestibility. She was, of course, advised to give him delicately-cooked eggs and milk, with fruit and grains in their simpler combinations.

Next we must consider the effects of cooking and

and milk, with fruit and grains in their simpler combinations.

Next we must consider the effects of cooking on the digestibility of food. "The effect of cooking is to make the food-stuffs more palatable, or more digestible, or both combined. In general the starchy foods are rendered more digestible by cooking; the albuminous and fatty foods less digestible," especially if cooked at a very high temperature. Raw starch is accountable for a great deal of dyspepsia; and half-cooked porridge, doughy cakes, and too-hasty puddings should not be tolerated in well-regulated homes. The object is to make starch soluble, and the little granules must absorb water, swell, and burst before they can be dissolved. For this, heat and moisture are required; and when these granules are coated with fat, as in pastry, made gravies, or fried food, it prevents the absorption of sufficient moisture or saliva to allow of being properly dissolved. All starches are rendered more soluble by long cooking at moderate temperatures or by a temperature sufficiently high to change a portion of the starch to dextrin, as in the brown crust of bread.

Of albuminous foods, the albumen of egg is typical of the class which is found in the albumen of the starch to dextrin the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to determine the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to dextrin the conditions of the class which is found in the starch to dextrip the conditions of the class which is found in the conditions of the class which is found in the conditions of the class which is found in the conditions of the class which is found in the conditions of the class which is found in the conditions of

Of albuminous foods, the albumen of egg is typical of the class which is found in the albuminous juices of meat, or in the casein of milk and cheese. These are soluble in cold water, but coagulate at a temperature of 160° to 180°, when a jelly-like consistency is attained, but beyond this a higher temperature renders them hard, tough, and higher temperature renders them hard, tough, and soluble with difficulty. In the matter of cooking milk and eggs alone, the temperature is easily regulated by using the double boiler; but the cooking of meat is more difficult. The albumen here is ultimately associated with gelatin and fibrin, which require considerably more cooking. The cook solution of the problem is to maintain this only solution of the problem is to maintain this moderate temperature for a sufficient length of time to soften the fiber and yet not "cook to death' the albumen.

Fats are readily absorbed in their natural condition, but are decomposed at very high temperatures, and their products become irritants.

The Cooking of Milk.—In "Domestic steriliza-tion of milk," Dr. Woodhead advises these who

buy milk for table use to insure against the dangers of disease germs, and prevent souring, by heating it over water for twenty minutes after the water begins to boil. The quantity of milk should not be more than the quantity of water by which it is surrounded in the outer vessel.

To Cook Eggs.—Eggs for "boiling" should be fresh, for their quality deteriorates as their age increases. For four eggs use about a quart of boiling water; cover the saucepan and set it on the back of the range where it cannot boil (that is, reach 212"), but will keep at a temperature of about 180° for eight to ten minutes. If you wish so-called "hard-boiled" eggs, leave at this heat for 35 to 40 minutes.

minutes.

Pouched Eggs.—Butter a saucepan, and use sufficient boiling salted water to completely cover the eggs. Break each one into a cup and drop gently in the water; keep at 180° until jellylike; lift carefully with a cake-turner and place on round slices of toast (cut from a loaf baked in a baking-powder can); serve bot.

can); serve hot.

Cereal with Fruit.—Mix ½ cup of wheat-germ meal with ½ cup cold water and l½ teaspoonfuls salt; add to this three cups boiling water and cook in a double boiler thirty minutes. Add ½ pound dates, stoned and cut in quarters. Serve with cream and sugar for breakfast, or mould in cups and serve cold as a plain dessert.

MARY E, MILLAR.

Puzzles.

1.-CHARADE So Charlie, you clever lad, Could'nt make my rebus LAST; I believe you did not try, But preferred to "let it pass."

"Good words are worth much" in my mind,
You think them so too,
PRIMUS a poet's "welcome" lines,
I read them through.

Twice almost felt like skating just Right FINAL into the air; Enthusiasm waned, alas, As the expanse became less clear.

The soft white robes of purity
Have covered that delight.
SECOND I must now snowshoes prepare
Instead of the steely flight.

Say, won't you be one of our party?
The north is delightful for snow;
You spoke of coming with Clara, pray do,
Over the hills we will go. Yes, that Xmas Advocate*
Was elegant complete.
First shades of prismal beauty
An "attire" meet.

Welcome present cover, So much like the old. Now I'll cease my rhyming, as The atmosphere grows cold.

LILY DAY.

I'm very small, tender and light, All insects love in me to crawl; I'm also useful, for without me You would have no fruit at all.

I'm rather large, hard and heavy, Insects shun me alway; I'm no use when in company, For they would all run away.

I'm a powerful friend on the brightest day
To guard your health and your pleasure,
Being always ready if that is your will
When you are at your leisure.

I'm a powerful friend on the darkest night To guard your house all around, Being always ready if that is your will When robbers around you abound. WM. S. BANKS.

3.-UNCLE TOM'S CABIN.

F . . . G H

Each dot represents a letter.

From 6 to 5 is a clown; 8 to 4, placed in possession of; 2 to 3, unmoved by pity; 7 to 1, oral account transmitted from father to son; 8 to 2, a place for holding water; 4 to 3, falling in autumn; 6 to 7, a residence of a prince; 6 to 8, to grant; 5 to 4, past tense of bowing the head. Chimney: F to H, part of a pig; F to G, female of birds; H to I, mire; G to I. a nickname. Door: down, fear; a state; across, a metal; 1 to 2, one who relates. Windows: A, across, a place for holding grain; a color; down, a stop; to bow; B, across, to help; one of God's works; down, design; sound of a dog; C, across, a verb; part of a bird; down, something for taking seeds out of cotton; a vessel; D, across, a boy; to possess; down, deep; home of a tiger; E, across, a fruit; besides; down, timothy; soaked with water.

J. S. CRERAR, Brussels. Each dot represents a letter.

4.—HIDDEN RIVERS.
Did your mamma ask her to come?
Did you see them bathing?
That weed is a very troublesome one.
Then it hit him in the eye.
This is for the little girl. ETHEL MCCREA.

5.—CHARADE. 5.—CHARADE.
In days before the "golden one,"
Ere Athens' power had begun,
She paid to Minos, king of Krete,
A yearly tribute, death to treat,
One hundred youths and maidens young
Across the whole were borne along;
And in a labyrinthine cave
A banquet to a monster gave,

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