

DOMESTIC SCIENCE AT HOME

Thirteenth Lesson-Bread.

meter and scale for accuracy, so that be moved or turned. you will have a positive knowledge of the baker to manufacture bread of a uniform quality.

The housewife's lack of knowledge of this most important part of the home cooking has resulted in the numerous large baking plants that are a feature of all large cities. Theory has caused many failures; few women really understand the underlying well baked. principles of fermentation.

History tells us that the Egyptians grain into bread.

grinding the grain one day between ounces. two stones, a sudden shower wet the Shortening is used to make the When the storm was over and the sun the food value of the bread. ing. He found that the sodden mass making of bread. that was the grain before the storm First, the sponge method. leavened bread.

from the Romans, who derived the art ed for fifteen minutes. After this it from their Greek and Egyptian cap- is allowed to rise for the second time. tives of war. Historians state that Now it is molded into loaves, given a the Romans made unleavened bread in short proof and then baked. 200 B. C.

this country unleavened bread is made the liquid and yeast into a stiff dough into biscuits and crackers, sometimes that can be worked without sticking called beaten biscuit. It depends to the hands. This method is quicker, upon the amount of air that is beaten because it is possible to have the bread or incorporated into the dough to give finished in about four and three-quar- states, and whose web encompasses it its lightness.

A knowledge of flour is necessary! Milk, part water and part milk, or spring and the other as winter wheat. may be added when the water is used. wheat is ground into two distinct scalded and cooled before using. varieties, known as soft spring wheat, and hard spring wheat.

Winter wheat is divided into two

pastry and cakes. To get successful results the flour dry the vessel. must be blended. The fancy patent Then place in a bowl three cupfuls land, the mastery of the sea."

foods that have a strong odor. For and two teaspoonfuls of sall. successful results the home baker | Knead for fifteen minutes, then put must have:

Good flour of a reliable brand. Good, active fermentation.

Yeast food.

baking purposes.

The proper amount of salt. The proper temperature. The proper manipulation. The proper baking.

a reliable brand of flour. Store it in 325 degrees Fahrenheit for forty-five a proper container in a place that has minutes. the right temperature. Sift the flour before using. The use of compressed

be supplied. The food necessary for which is a necessary principle of the spoonfuls of sugar, one and one-half process of fermentation.

to control the process of fermentation. must now be smooth and elastic. Put Empire gates. Without the British and arteries of the Empire, with its If too little salt is used the bread will in a greased bowl and set to rise in a fleet, a world-wide Empire was an innumerable cruisers, dreadnoughts, lack flavor and be of a coarse, rough place free from all drafts, with a temtexture, while if too much is used the perature of 80 degrees Fohrenheit given us wealth, honor and power the most formidable armada on earth, action of the yeast will be retarded for three hours. At the end of this given us wealth, honor and power the most formidable armada on earth, volume.

Temperature is the controlling factor in successful bread-making. The room in which the bread is made must be free from all drafts. The proper temperature is 78 degrees Fahrenheit in summer and 80 degrees in winter. Use a thermometer and eliminate the

guesswork. By this is meant that the dough ounces each. must be worked sufficiently by rolling and knealing, if made by hand. If a breadmixer is used the bread must be worked for the period of time as per instructions as supplied with the ma-

chine. fifteen to twenty minutes and from five to ten minutes when using the mixer.

Baking.

care. It must not be placed in an ber that judgment must be used. It pven of uncertain temperature, then is impossible to gauge the accurate the door closed and the bread left to amount of flour to any given amount degrees Fahrenheit when the bread is of moisture they absorb; for this reaplaced in it. The bread should be son it easily will be seen that one watched carefully and if the heat of brand of flour will require a little the oven is not evenly distributed more or a little less moisture than

When making bread use a thermo- faster than the other), the bread must ways. Don't guess at your work.

how and what you are doing. Modern gisters a high degree of heat, if you no chances; he knows, and in knowing mine explodes beneath a ship, there is inventors have made it possible for were to place a thermometer in the lies the secret of his success. Any little chance that she will remain center of the loaf of bread you would thermometer will do that will register affoat as a fighting unit. To have to find that it requires nearly fifteen min- from the freezing point to 100 degrees move much in mined waters, or to be utes for the heat to reach the center Fahrenheit, when preparing the bread, continually exposed to submarines, imof the dough to heat it to the boiling but do not use this thermometer in poses a strain on officers and men point or 212 degrees Fahrenheit. For the oven. A regular oven thermometer given after the bread is well colored price. It will save its cost in three generally believed to be part of Ger-

were probably the originators of bread. thirty-five to forty minutes for med- is above money value. The following fable illustrates the dis- ium-sized loaves, weighing about sixcovery of the method of converting teen to eighteen ounces before baking; from forty to sixty minutes for loaves The story goes that a slave, while weighing from eighteen to twenty-six

meal. The slave fled from the storm, bread render and to neutralize the acid forgetting in his haste about the meal. in the flour; it also furnishes fat to

had come was now a dry hard cake. calls for a sponge of light batter. The This was the first production of un- mixture is set to rise and then the remainder of the flour, salt and shorten- Her Ships Patrol the Seas Day and Modern breadmaking dates back ing is added. The dough is then work-

Second, the straight dough method. In many portions of the Old World In using this method the salt, shortenthis style of bread is still made. In ing, sugar and flour are mixed with ters hours. This method gives very the whole world within her dominions, satisfactory results.

for successful baking. There are two all water may be used in making distinct kinds. One is known as bread. One medium-sized potato Spring wheat flour contains the larg- Milk increases the food value of the est percentage of gluten. This spring bread. The milk must always be Ever since the days of Queen Eliza-

The Sponge Method.

varieties similar to that of the spring place where it will have a temperature the world, scattering the fleet of Nawheat flour, namely, red winter flour, of 80 degrees. Now to prepare the poleon, who grasped for world power which is the hard winter wheat flour, sponge. Heat the utensil in which (like the German Kaiser at the preand the soft winter wheat flour. The the sponge is to be made by filling it last-named flour contains a large per- with hot water. Let the water stand centage of starch. It is used for in the utensil until it is heated thoroughly; then empty out the water and

flours that are on the market are es- of liquid, testing it with a thermopecially prepared for all-around family meter to see if it is exactly 80 degrees Fahrenheit. Crumble in the yea'st Pastry flour, or soft winter wheat cake and add two tablespoonfuls of flour, will not make good bread, ow- sugar and three cupfuls of sifted flour.

> rising. hours.

When starting to make bread select bake the loaves in an oven registering

Straight Dough Method.

tablespoonfuls of shortening; one and Salt is added to the bread for two one-half teaspoonfuls of salt. Mix

about fourteen ounces apiece, or one loaf and eight rolls, weighing two

Points to Remember.

Use good flour. Sift he flour. Scald and cool all milk or water

used in making bread.

free from all drafts. Thorough manipulation.

The baking of the bread will require | Follow the recipe closely. Rememtolic altars burns as a beacon to all luck. The oven should register 325 of liquor. Flours vary in the amount mankind. (that is, if one part of the break bakes another. When the amount of liquid with the world's progress, and for the

is known, it is a very easy matter to past twenty-five years, the best brains withhold one or two tablespoonfuls of of the world—the greatest mathemaflour or to add the same amount.

is meant that it must have good color, a pleasant yeasty odor and be firm to the touch. The compressed yeast is the best kind to use.

when taken from the oven, with melt- efficiency." Great Britain, for years, ed butter.

floor of the gas oven while the bread superiority at sea is complete. To

Use a thermometer first, last and al-Know what you are doing. This is since the menace hidden in torpedo Remember that while the oven re- the baker's greatest tool. He takes or mine is a potential disaster. If a this reason sufficient time must be can be purchased at a very reasonable that can be easily understood. It is for the interior of the bread to be months. The assurance that the oven many's war policy to wear down Brittemperature is of the right degree ish numerical superiority at sea by The time allowance should be from conveys to you a peace of mind that mines and torpedoes, that the German

had come out he returned to his grind- Two methods are employed for the THE BRITISH NAVY HOLDS THE KEY TO ITS SOLUTION.

> Night in Ceaseless Vigil and Maintain Empire's Supremacy.

By H. E. Bywater, Editor, "Palmerston

Spectator." Great Britain depends mainly upon her fleet for her existence. Over the sea in calm majesty lies the proud islands, whose Empire is stronger and vaster than any coalition of other for she possesses the resources of all continents. There is no part of the world that she has not established her garrisons or her colonies, and her unrivalled fleet dominates every sea. was destroyed by British sea power, Sift the flour and then set it in a she has been the controlling genius of sent time), and forever destroying his hopes of world-wide empire. "To me," said Napoleon, "God has committed the mastery of the land; to Eng-

"Keys to the Nations."

the last days "will possess the gates sent the German fleet into hiding, is of her enemies" (the strategic points | the most terrible inferno that the mind ing to the low percentage of gluten. Beat with a spoon for five minutes. of the world). According to Anglo- can conceive. It is the most nerve-The flour should be kept or stored in a Cover and set in a place free from all Israel theories advanced by the late racking experience that men can enroom that averages about 70 degrees draft. for one and one-half hours. Prof. Totten of Yale University, Rev. dure, and on their powers depend the Fahrenheit and in a container that Then add six cupfuls of flour, one and Dr. Poole and others, no other nation ultimate issue of battle. We trusted may be kept closed and away from all one-half tablespoonfuls of shortening but our own can possibly measure up entirely to British naval science in to the claim. The word "gate" is marine artillery, and the high quality the dough in a greased bowl; now turn from the Hebrew word "Shaar," which of British seamanship, and the victory it over. This will grease the dough according to the most noted Hebrew was ours. and prevent it forming a crust while writers means "the place of entrance." Cover and let rise for two Rev. Dr. Poole, in his annotations, says, "The gates means the fortified Mold into loaves, place in well places of a nation." Morse, in his pend on the army, but on its navy. greased pan, and set away to rise for geography, calls them "the keys to the Its colonies and the Empire Islands nations." Great Britain, through her could not exist but for its grand fleet. sea-power, holds all the important Its commerce would disappear in a "gates" of the world, and without this night, and the citizens of the snug Use a scale when ready to mold the power all Europe would to-day be at little islands set in the silver sea loaves. Weigh twenty ounces to each the feet of the Kaiser, humiliated and would starve in a few months. Briyeast eliminates all doubt and uncer- loaf. Divide the balance of the dough broken. The following strategic tain's very existence depends on her tainty of the old style liquid and dry into rolls, weighing two ounces each. "ocean gates" give our Empire world havy. The greatest and most surpris-This recipe will make two loaves of dominion: The Channel Islands, Gib- ing development of modern warfare is For successful results it is necessary bread, weighing, after baking, about raltar, Malta, Cyprus, Acre, Suez the sudden evolution of the submarine. to supply the yeast with a food for seventeen and one-half ounces apiece, Canal, Aden, Babel-Mandeb, Perim, It can navigate the stormiest sea in Sxortra, Bombay, Madras, Peshawub, perfect calm, perfectly invisible to the the active development of the yeast is Two cupfuls of water, 80 degrees Singapore, Malacca, Egypt, Borneo, ace that British merchant vessels have Rangoon, Calcutta, Burmah, Penang, enemy. It is the most terrible men-Hong-Kong, Australia, New Zealand, to face. It is the greatest danger on the Falkland Islands, Fiji Islands, the high seas. Great Britain has lost Mauritius Island, Africa, Sierra Leone, 21/2 per cent. total gross tonnage of purposes-first, to flavor the bread well. Crumble in one yeast cake, stir Cape Colony, St. Helena, Ascension, merchant vessels, but the menace in and make it palatable, and also to until dissolved; now add six cupfuls Tasmania, Jamaica, Bahamas, Ber- the future will have to be met by new supply one of the mineral elements es- of flour. Work to dough and then mudas, Nova Scotia, Newfoundland methods, and possibly new men. sential to the human body. Second, knead well for fifteen minutes. It Islands, Quebec, and numerous other The British Navy, which is the veins time mold into two loaves. Put in without the cost of maintaining a and on its strength and power alone, greased pans and let rise again for huge and costly army. It was for the backed by iron destiny, depends the fifty minutes. Now, bake in an oven purpose of wresting supremacy and present and future of the world. With of 325 degrees Fahrenheit for thirty- possessing the "ocean gateways" of the fleet intact, Germany can never the world, that Germany has chal- possess the "gates" of the world, or This amount of dough makes two lenged Great Britain, and as a result secure world power. loaves of bread, that will average half of the world-is now locked in a deadly struggle. No citizen of the British Empire can fail to have his patriotic pulse stirred with pride, Weekly Expenditure Upon Imperial when he contemplates his citizenship, for we are subjects of an Empire, which dwarfs into insignificance, that of Rome in its palmiest days-an The temperature for success must Empire upon which the seal of Divine Time for hand manipulation is from be 78 degrees in summer and 80 de- approval has been signally placed—an grees in winter; also the room must be Empire with which the highest destinies of the ages are fraught-an Empire into whose keeping God has committed the "gates" of the earth, the lamp of her faith kindled at the apos-

Superiority of Great Britain.

Great Britain, from the wooden ships of Nelson's day, has kept pace

ticians, the greatest chemists, no less The yeast must be fresh. By this the greatest masters of applied science-have been engaged in a world-struggle, in which each great power has sought to outdo the others Brush the top of the loaves of bread, in what might be termed "destructive maintained the policy of laying down Place a pan of boiling water on the two ships to Germany's one, and her maintain the ascendency at sea a great problem at the present time, high-seas fleet will at last be in a position to meet the British fleet in actual battle for sea supremacy, but after two years the British Navy is stronger than when she first faced the issue at the outbreak of the war. The silent vigil of the British fleet in the North Sea has saved all Europe, and France particularly pays a generous tribute to the sea-power of Great Britain.

Huge Floating Forts.

When the great battle fleet assembled at Spithead in July, 1914, at a time when, though few of us realized it, the war clouds were already gathering, and the chancellories of seven or eight capitals were filled with doubts and fears-this great fleet, more formidable than any ever seen before, was visited by thousands upon thousands of sightseers, not only from the far inland towns of Britain, but of the very heart of Central Europe. The thing about the great armada that impressed most were the guns, which exercised a wonderful fascination. It was so wonderful that out of the simple-looking tubes that bristled on the super-Dreadnoughts, could issue missiles that would travel accurately for twenty miles or more, or at half that distance send to the bottom the beth, when the great Spanish Armada mightiest ship afloat. The modern battleship like the Iron Duke or Queen Elizabeth, is simply a huge floating fort. She is designed for the purpose of hurling at the enemy as great a weight of armor-piercing shells as possible-the result of naval battles depending almost altogether on the weight of metal and the accuracy of the range. An engagement of modern battleships, such as occurred in the North Sea a few months ago, between In Holy Writ it is written Israel in Great Britain and Germany, which

Our Invincible Armada. The destiny of the British Empire,

WHAT A "TOMMY" COSTS.

Infantryman is Sometimes \$24.

The weekly value of the state's expenditure on the infantry private with a wife and two children, corresponding to the wage payable in civil life, is approximately as follows:

goes to the wife as compulsory allot- tance. ment; clothing, 3s; board and lodging, 20c; separation allowance, 17s 6d to 21s (plus the man's 3s 6d allotment); civil liabilities grant, average 7s 6d, maximum 40s. Cost per week 47s 6d to 94s 6d.

For single soldiers the cost varies 6d with the grant.

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"MOVE UP."

Make Room For Old Uncle Sam. 'Move Over! You hard-hitting sons of King George,

Move Over! You heroes of France, Make room for the legions of ole Uncle Sam,

We've been waitin' two years for the chance.

"In spirit we've been by your side right along,

'Cause we never were keen for the Now we've joined, we'll keep scrap-

pin' with you to the end, And back up your play with a gun.

'Hey, Little old Belgium, we'll take the right flank! We'll get back your homeland for

For the Star-Spangled banner in glory shall wave,

Backed by a million or two. "Put it there, brother Serb, you're a

hard-fightin' kid, Will we muss up the Bulgars a bit? Come on, brother Russian, let's jam

the line hard, And show Kaiser Bill he ain't IT.

"All right now! Together, let's end the thing quick! Fix bayonets! The Boche don't like

We'll help you to finish the thing now we're here. And show them our army is real.

"Two million Yankees can make quite a dent,

When they're trailin' a yellow-

streaked knave, And there's eight million more who will come at the call,

From the land of the free and the brave."

-Kenneth MacDougall.

A Haig Story.

Here is a story brought back from the front about Sir Douglas Haig.

Sir Douglas was, some few weeks ago, in a great hurry to get to a cortain place. He found his car, but the chauffeur was missing. So Sir Douglas got in the car and drove off by himself. Then the driver appeared, and Pay, 7s to 10s 6d, of which 3s 6d saw the car disappearing in the dis-

> "Great Scot!" cried the driver, 'there's 'Aig a-driving my car!"

"Well, get even with him," said a Tommy, standing by, "and go and fight one of 'is battles for him."

Those who take up the study of the from 30s without civil grant to 73s bee have need to handle the subject gently.