

First Lesson-Food Constituents.

cooking lies with the housewife who Starch, by the process of digestion, is knows food constituents, their value converted into a dextrine, and then and the proper method of preparing, made into a convert sugar. This as well as how to plan a diet for in- change takes place in the intestines. valid, child or grown person.

fic housewife.

salts, water.

are meat, milk, cheese, butter, eggs, this body fuel. are meat, milk, cheese, butter, eggs, this body fuel.

Mineral Salts.—The source of inortoplace in their home. The Williams told you to pile the wood over there!"

New Scale, which they can be proud to place in their home. The Williams told you to pile the wood over there!"

Eugene looked them over. They amount of heat as starches.

starches and sugars, and they are structure and appear in tissue buildfound chiefly in green vegetables, ing. grains and fruits. Carbohydrates are Water.-Water is the most necescomposed of carbon, hydrogen and sary of all foods; it forms a part of oxygen in small granular grains in- all tissues and is the important facclosed in cellulose coverings. Carbo- tor in the blood stream. It is prehydrates are used to supply energy or It carries nourishment to the blood power to do work. They enter, to a and regulates the bodily process of small extent, into the process of build- elimination.

#### Canning Gooseberries.

To can gooseberries, stem and remove the tails, then wash in plenty of cold water and drain. Pack in jars and fill with boiling water or a heavy syrup. Place the rubber and lid in position and process in a water bath for thirty minutes. Remove, and test for leaks, then store in a cool, dry place. Label and date.

Canned Gooseberries for Pies .- Prepare the goose erries by stemming and tailing. Place in a preserving kettle and add one cupful of sugar for every pound of prepared fruit. Add one-half cupful of water to a cupful of sugar. Place the kettle on the fire and bring slowly to a boil, stirring all in hot water bath after the boiling in with a knife, then painted over. test for leaks.

until very thick and pour into steriliz- or lamp black. for jellies.

The secret of success in successful ing tissue. They also furnish heat.

Fats.—The source of fats is in beef, Many women read technical terms lard, chicken and other compounds of and become frightened and bewilder- an animal source, and in olives, corn, federation. ed. This is very foolish. Just re- peanut and cottonseed oil of a vegemember how hard it seemed to do table source. Vegetable oils are "ee decimals before you mastered them, from all disease. Corn oil is superior and how quickly you understood after to all domestic oils, it is the by-pro- ments seem hardly possible. a little practice. It is just the same duct of corn from which cornstarch is way with food terms. Learn the few made. In composition fats contain simple principles and become mis- carbon, hydrogen and oxygen. Fats in tress of the finest profession in the the body furnish a greater amount of Canadian" firms is The Williams world-become a practical and scienti- heat than starches. They are used Plano Co., Ltd., of Oshawa, Ont., also for building tissue. A large makers of the famous Williams New The five principal elements of food amount of fat must be used during Scale Piano. necessary to maintain the health are: cold weather than in hot weather, for Proteins, carbohydrates, fats, mineral the heat radiating over the surface and established this concern in 1849evaporates more quickly in the cold, 68 years ago. Canadians will feel

contain carbon, hydrogen, nitrogen, ganic salts is principally in green Piano Co. at Oshawa will be glad to "I didn't think it would make any were mere fragments in construction sulphur and sometimes phosphorus. vegetables, grains, milk, meats, eggs Containing about sixteen per cent. of and fish. The salts found in foods "Artist Choice" piano, free upon remitrogen, their chief use is tissue are calcium, iron, chlorine, phosbuilding, repairing waste and making phorus, magnesium, sodium, sulphur muscle. They also supply the same and potassium. Salts are used to regulate the body; they are also needed Carbohydrates .- Their source is in for the formation of bone and teeth

other fruits when making jams, such and Parliament for the whole. Com- the teachers found him annoying. It shaken up that reinforced concrete as strawberries, raspberries, black- pare with that State the enormous was difficult for him to obey orders nust be put in before trains could use berries, huckleberries or currants.

quarts of gooseberries, two cupfuls of a solution which has been found prac- no serious difficulty until he went into struction crew were to go out on a water. Place in a small preserving ticable in the case of the United States the high school. He was taking his two o'clock special. They were waitkettle and boil until very soft, usually will never work in the case of an en- first year's work in chemistry. Dr. ing for those drafts. fine sieve and allow a measure of su- to work out for the world. gar to each measure of fruit pulp. Return to fire, cook slowly until thick. Pour into glasses or pots and cool. Cover with paraffin.

### Floor Fillers.

the time the berries are cooking, Boil may be filled with the time-honored founded on the idea of assimilation, of for five minutes, then pour in steriliz- paper pulp, made by boiling newspaed jars. Place the rubber and lid in pers to jelly, draining, and mixing one mould. Your whole idea and baposition and process for ten minutes with glue. The substance is jammed sis is entirely different. You do not

starts. Remove and cool and then But sawdust, mixed also with glue, is more satisfactory, and saves time. them towards a greater nationality. Gooseberry Jam .- Use two quarts Cornstarch, moistened with turpentine These communities, the offspring of of gooseberries. Stem and tail them or linseed oil, makes an excellent filler the Mother Country, or territories ing one and one-fourth pounds of su- before paint, stain, or wax. If de- ed after the vicissitudes of war, must gar and two cupfuls of water. Cook sirable, tint with ocher, burnt umber,

ed glasses. Cool and cover with Commercial fillers ready to apply paraffin. Store in the usual manner may be bought at any paint store and, of course, save time and trouble.

# FUTURE OF THE

EXCERPT FROM HISTORIC AD-DRESS BY GEN. SMUTS.

The "Orator of the Empire" Made These Important Statements About the Future of the Empire.

and President Kruger's State Attor- Empire by itself, where civilization ney in the Transvaal Republic. He is has existed from time immemorial. now a loyal and enthusiastic soldier We are trying to see how East and and statesman of the British Empire, West can work together. These are and performed a signal service in enormous problems; but beyond them

finest and most statesmanlike utter- themselves, which have been evolved nations together? If there is to be ances that the war has produced. It on the principle of a European con- this enormous development towards a was delivered before the British stitutional system into almost inde- more varied and richer life among House of Parliament in London.

make mistakes in thinking about prefer to call 'the British Common- that there are two potent factors that this group of nations to which we be- wealth of Nations.' long, because too often we think about "You can see that no political ideas first is your hereditary kingship. it as one State. We are not a State. which have evolved in the past will have seen some speculation recently The British Empire is much more than apply to this world which is compris- in the newspapers about the position a State. I think the very expression ed in the British Empire; and any of the kingship in this country-spec-'Empire' is misleading, because it name we have yet found for this ulations by people who, I am sure, Germany is an Empire. Rome was the Empire. an Empire. India is an Empire. But we are a system of nations. We are "The question is, how are you go- The law of booty governing the not a State, but a community of States ing to provide for the future govern- Israelites is given in Nun. xxxi. 26-47. and nations. We are far greater than ment of this Commonwealth? An en- Booty consisted of captives of both any Empire which has ever existed, tirely new problem is presented. If sexes, cattle and whatever a captured and by using this ancient expression you want to see how great it is, you city might contain, especially metallic we really disguise the main fact that must indulge in comparison. Look at treasures.

our whole position is different, and that we are not one State or nation or empire, but a whole world by ourselves, consisting of many nations, of many States, and all sorts of communities, under one flag.

#### A System of States.

"We are a system of States, and not, I think, a stationary system, but a system always going forward to new destinies. Take the position of that system to-day. Here you have the United Kingdom with a number of Crown Colonies. Besides that, you have large Protectorates like Egypt, an Empire by itself. Then you have a General Smuts was a Boer General great Dependency like India, also an driving the Germans out of Africa. | we come to the so-called Dominions, The following speech is one of the almost independent in government going to keep this Commonwealth of pendent States, but who all belong to the nations, how are you going to "I think that we are inclined to this community of nations, which I keep them together? It seems to me

#### Our Future Government.

## Piano Firm 18 Years Older than Confederation



On July first Canada celebrated the semi-centennial celebration of Con-

Looking back over the progress accomplished in Canada during those years, the many remarkable achieve-

The industries of Canada have progressed step by step as the population increased. Among the older "truly

R. S. Williams came from England Proteins.—The source of proteins oi, in other words, the cold oxidizes proud to know that they have such a "truly Canadian" piano-the Williams | vented him from getting in. send interesting points concerning the difference."

> the United States. There you find I planned to keep it." is more and more growing into one across the shed. nation; one big State consisting no "I told you what to do. You should went out to luncheon. doubt of separate parts, but all link- learn to take orders without always came back at two o'clock, he found ed up into one big continuous area. knowing why." The United States had to solve the But that was just a home episode, and the chief engineer at his desk. problem which this presented, and and the lesson did not sink deep into "I was just about to begin them," they discovered the federal solution- the boy's consciousness. a solution which provides subordinate He had similar experiences all the An unpleasant scene followed. There treatment for the subordinate parts, way through school. In spite of his had been a wreck of one of the flyers, Gooseberries may be combined with but one national Federal Government good mind and his willingness to work, and a viaduct had been so badly system which is comprised in the Brit- exactly; in his own mind he could al- it. Meanwhile they were making a English Gooseberry Jam. - Two ish Empire. You can see at once that ways see a better way. But he had detour of twenty miles. The con-

#### Towards a Greater Nationality.

"What I feel in regard to all the empires of the past, and even in regard to the United States, is that the effort has always been towards forming one nation-always one nation. All the empires we have known Cracks and crevices in old floors in the past and that exist to-day are trying to force human material into want to standardize the nations of the British Empire; you want to develop not be moulded in any one pattern. You want them to develop on the principle of self-government, and therefore your whole idea is different from anything that has ever existed before. to bear in mind—that this British have been obtained may not, of observer from aloft obtains the vision Commonwealth of nations does not stand for standardization or conventionalization, but for the fuller, richer, and more various life of all the

nations comprised in it. feel that their interests, their lan- application of old methods which the stoops at its quarry like its protoguage, their religion, are as safe and secure under the British flag as those of the children of your own households and your own blood. It is only in proportion as this is realized you will fulfill the true mission which is yours. Therefore, it seems to me that there is only one solution, and that is a solution supplied by our past traditions—the traditions of freedom, self-government, and of the fullest development.

#### The King and the Empire.

"The question arises, how are you you must rely upon for the fuure. The wealth of Nations."



Orders.

wood in the woodshed on the side next after twelve minutes. "I guess it the barn. You'd better do it this will be all right now," he thought, morning."

father went off to work. He did not the generator. Something exploded object to pilling up wood. He was like a bomb. The generator flask not at all lazy, and there was nothing was splintered, and the hot acid ran in particular to do that morning; so over his hands and burned them like he whistled as he carried the wood in, fire, and ate into the sleeves of his armful by armful. Then he looked coat. round the shed.

very painstaking.

little electric automobile. He tried tion. to run it into the woodshed, but the "Let the Queen Run bridge work go wood stuck out several feet and pre- and compute these," said the clerk,

the Hamiltons' car while they are out he was in the midst of the most diffiof town. The woodshed was where cult part of his bridge work. He

what is essentially one nation, not "I didn't know-" began Eugene. and take up this new piece of work perhaps in the fullest sense, but what He was already throwing the wood when he came back from luncheon.

the arsenic test.

"On no account must the hydrogen important." the gas in small quantities and test it i .. my office will do." away from your bench. It will re- It delayed Eugene's promotion; it Engene timed himself. "Fifteen | 1 ... rn his lesson.

minutes-sixteen." There was only a "Eugene," said Mr. Dixon, "pile the faint "pop" when he had made his test "and I am tired of waiting."

Eugene went to the woodshed as his He touched a match to the nozzle of

In college Eugene took the engineer-"Pile it on the side next the barn," ing course. His work was good, and his father had said. There was no the instructors used their efforts to reason at all for that, and it meant get him a position. He went to one more steps; so Eugene piled the wood of the big offices of a railway. His on the side next the door. He was superior officer, the chief clerk, was a man of few words who gave his At noon Mr. Dixon came home in a orders without unnecessary explana-

coming in one morning from his office

work. He could do the whole thing "It does. I am to have the use of in two or three hours. At present would finish up the one difficult point,

He finished his computations and the chief clerk, the master mechanic

he said.

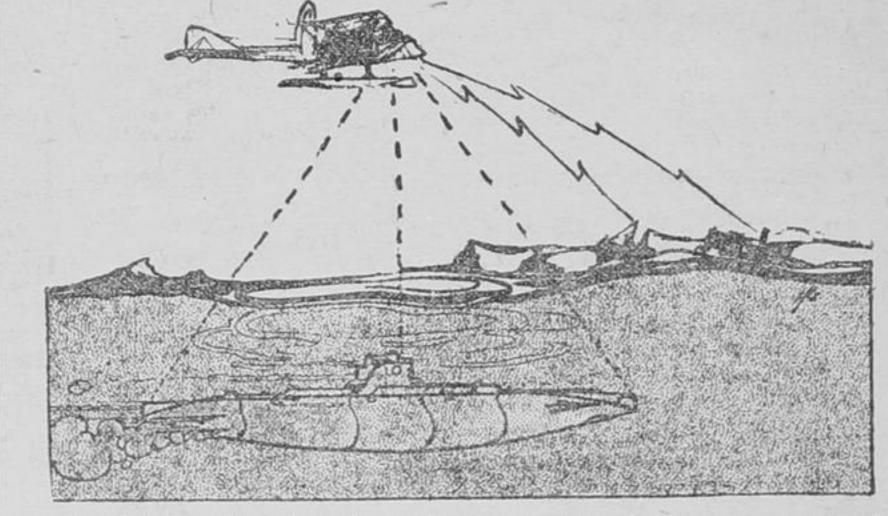
about one-half hour. Rub through a ormous system such as we are trying Roberts gave them instructions for "I could have had them done an ( hour ago, if you had told me they were

> be lighted until it is certain that all "I don't ask questions!" roared the the air in the generator has been driv- chief clerk. "I obey orders as they en off," he said to the class. "Collect come in, and that is what every man

> quire twenty minutes before you can nearly cost him his position. But it make the final test at the generator." will take a long, long time for him to

and place in a preserving kettle, add- for porous-grain wood, to be applied like my own, which have been annex- The Greater Part of the Recent British Successes in Combating Undersea Pirates Has Been Obtained by the Skilful Application of Old Methods.

Precisely by what means our re- ing called in evidence. The reasoncent successes against submarines ing has proved sound. The human course, be revealed. We have been is visible to him under the water, definitely told that a new device has save in certain unfavorable circumbeen employed with good results, and stances, almost as plainly as if it it may be safely surmised that there were lying on the surface. You must are more to follow, says the London imagine sea-hawks with a 60-foot "Even the nations which have Observer. But the greater part of span of wing, and sword-fish 200 feet fought against it, like my own, must the work has been done by the skilful in length. The bird of prey, perhaps,



On sighting the submarine under water the aviator summons the cruisers, trawlers, and "chasers" by wireless and they encircle the spot indicated. If the submarine comes to the surface and there is danger of it escaping before it can be netted, the aviator proceeds to bomb it.

and other birds of the same habit be- his latest craft, affords no protection.

unwearying work of our young offi- type; but, instead of following it into makes people think that we are one group is insufficient. The man who have not thought of the wider issues cers has taught them to handle with the depths, it proceeds to lay moncommunity, to which the word 'Em- will find a proper name for this sys- that are at stake. You cannot make deadly effect. For instance, it is no strous and fulminating eggs. The pire' can appropriately be applied tem will, I think, do real service to a Republic of the British Common- secret that, with the longer days and rest is silence, for the public, and, clearer weather, the seaplane has frequently, for the sword-fish too. It been used most effectively, both for is enough to say that there is a forpurposes of observation and of "straf- mula by which the necessary damage ing." The possibility that the sea- is ensured without the need for an plane might prove the bane of the absolutely direct hit, and that the submarine was foreshadowed before three-inch armored decks with which the war, the analogy of the sea-hawk the Hun is believed to have protected