# Scientific and Useful 回

#### A SIMPLE REMEDY FOR A CORN.

The following is said to be a simple remedy for corns:—Tie a piece of le-mon on the corn for five nights, leav-ing it on all night. Then soak the mon on the corn for five nights, leaving it on all night. Then soak the foot in warm water, and the corn can be easily removed. When the root of the corn is taken out cover the toe with collodion or some other preparation to protect the skin, which will be sensitive. Unless the tender skin is protected it will soon form another corn. A piece of cotton saturated with vaseline and put over the toe will also effect this purpose.

# + + + IMITATION PRIX IOUS STONES.

"Paste" from which imitation precious stones are made is widely known, but few are acquainted with the ingredients, though it is generally understood that the paste gains its brilliance from the lead it contains. Formulas vary for the paste, but all contain rock crystal, which paste, but all contain rock crystal when also contributes to the brilliancy, red lead, carbonate of potash, borax, and white arsenic. It is required that these articles shall be of a high grade of pu-rity, as there is a considerable waste, so that the gems made from "strass," as the composition is technically known, are by no means inexpensive.

# + + + IS YOUR POOD PURE!

' To test the presence of coal-lar dyes in such things as jam, fruit syrups, or any other very red article of food, all that is necessary is to boil a piece of white woollen cloth, first wet thoroughly with boiling water, in the suspected article for five or ten minutes, and then wash out the cloth in boiling water. The natural colouring of the fruit will leave the cloth only a dull pink in huc, wille artificial dyes make it a brilliant red. Honey is often adulterated with glu-cose, and its presence can be discovered be nutring some of the honey in strong cose, and its presence can be discovered by putting some of the honey in strong spirit of wine. If glucose is present, it will cause turbidity in the spirit, and will settle at the bottom in a thick gunnny mass, while genuine honey forms into a flocculent precipitate, and when it has settled, leaves no turbidity. Adulte-rants are not always added because they are cheaper than the genuine article, but the public have a right to know when they are used; and it would be a disthey are used; and it would be a dis-tinct gain if, in case of suspicion, a simple test could always be applied.

#### ONE DROP OF WATER.

In a single drop of unfiltered water may be seen in miniature the tragedy that goes on perpetually in the world

that goes on perpetually in the world at large, for in the little drop there is a whole universe of life, with all its terrible and death-dealing competition, with all its mystery and wee. It was a French biologist who invented the method by which this wonderful state of things is demonstrated. He called the method the "hanging-drop shape," and it is beautifully simple. A drop of water from the edge of an ordinary pund is placed in a hollowed-out space on a small strip of glass and sealed with a bit of thinner glass. And now day after day and night after night the hideous business going on in that one drop of perfectly clear, and apparently pure, water may be watched and studied at the leisure of the observer.

drop of water is a world in itself. The drop of water is a worse in issen-malitization of animals swim about in it with plenty of room. The giant worses, with tremendous swishing tails, of whose approach one is made aware by the confusion and panic of aware by the confusion and pane of the smaller erentures scurrying out of the way, in fear of their lives, and sountiess bacteria inhabit that drop as their permanent and proper home and their permanent and proper home and their ranging place.

#### VEGETABLE EGGS.

Some discussion has arisen as to supplies of West Indian so-called vegetable eggs. Trial shipments are being sent from Jamaica to the London markets. The egg-plant—brinjal or aubergine—is The egg-plant-brinjal or aubergine—is Salanum Melongena, an annual supposed to have had its origin in India or Arabia, but now cultivated in all tropical countries, where the fruits are highly esteemed. They are eaten either raw or cooked in the tame way as tomatoes, to which they are nearly related. There are many varieties, ranging in colour from white tables based on the plant way is characteristics. varieties, ranging in colour from white to black-purple, and in shape from that of a hen's egg to that of a German sausage. The largest we have seen were sin long and 3in in diameter. They have not hitherto found much favour in this country, but here and there one hears of them being grown for table use. It continental countries, however, especially France and Italy, they are in general use. The plants thrive in the open air in England during the summer, but we have not, as a rule, sufficient warmth to nave not, as a rule, sufficient warmth to make their cultivation profitable in this country. The success of the tomato and banana in the English market should encourage those who hope to make reg-table eggs grown in the West Indies as popular as those two kinds of fruit have become.

## + + + UROSION BY THE SEA.

A writer in the "Revue Scientifique," speaking of the inroads of the sea upon the borders of England, says that between Ribble and Dee, on the east coast, the land has been submerged since coast, the land has been submerged since the fourteenth century, and the work is still going on. The walls of a castle that only 50 years ago stood half a mile from the sea are now washed by the waves. Near Land's End a whole region waves. Near Lands End a whole region of 227 square miles has disappeared with more than 100 towers and villages. Since time of Edward I. the area of the Duchy of Cornwall has been greatly reduced, and plainly so since 1776. At Selsea. Sussex, ships now cast anchor along a line that is called "the park." along a line that is called the park," and which was formerly a park for deer. At Bexhill on Sea a submerged forest is visible at low tide. In Suffolk and York-shire many towns have been overwhelmshire many towns have been overwhelmed in comparatively recent times. Four hundred houses were carried away in a single year at Dunwich. Between 1835 and 1660 four churches disappeared. In 1399 Henry IV. disembarked at port of Ravensburgh, but since 1838 Ravensburgh is no more. Easton, once an important town, could count, a center. an important town, count count, a cen-tury ago, only a dozen inhabitants and two houses. The 33 years from 1867 to 1900 were marked by a reduction of the area of Great Britain from 56,964,260 in 56,782,053 acres. In a third of a cen-tury the loss has been 182,297 acres.

### . UNIVERSAL TIME STANDARDS.

e proposition to make Greenwich the legal standard in France has, ding to "Nature," been revived this according to "Nature." been revived this winter. No statement is made about the chance that it will receive legislative sanction, but at least two pretexts for pursuing an independent course have been removed since the question was last seriously discussed by French state-men and estimaters. seriously discussed by French state-men and scientists. Spain, after long delay, fell into line only a few years ago, though the difference in time between Madrid and London is greater than that between Paris and London. Practically the whole of Europe now, except France and Russia, have officially sanctioned the related projects of having time betts exactly an hour apart, and making Greenwich the starting point to which they should all refer. America, it is hardly necessary to add, adopted the plan twenty years or more ago.

Another obstacle in the way of cooperation was a singular disagreement between British and French astemomers regarding the difference in longitude by-

between British and French astenioners regarding the difference in longitude be-tween Paris and Greenwich. Time changes four minutes for every degree as one gose castward of westward, and though the computations of the experts

were only a few seconds apart, it was necessary to eliminate the discrepancy entirely before it would be feasible to say just how far hack French clocks should be set when the new programme took ef-fect. Within the last three or four years an international seministers of the programs. an international commission has made a an international commission has made a fresh determination of the positions of the two cities, or, rather, of particular landmarks in them. On that point a laarmonious conclusion was reached a few months ago. It is conceded on both sides of the English Channel that if France alters her standard at all it chould be to the extent of 9 minutes and ≱i seconds.

Popular prejudice against English ideas and institutions may account in come measure for the hesitation of the French people to accept a plan that has been approved by nearly all the other civilised nations of the world. However, civilised nations of the world. However, if such a sentiment has exerted any influence in the past, it would appear to be less potent to-day than it was ten or twenty years ago. Now that the last important technical objection to taking the step has disappeared, therefore, it would not be surprising if France should formally commit herself to the project when it is next presented to her Senate and Chamber of Depmties.

#### MILITARY TROUT IN THE WAIRA-RAPA.

New Zealanders who know Masterton and the Wairarapa will be able to trace the localities mentioned in the followthe localities mentioned in the following letter, in spite of the somewhat strange disguises in which the English ampostor has sought to bury them. The letter appears in the "Field." and is written by Mr George Beetham, from Cannes. He says: "I have just re-eived from my brother, Mr Richmond Beetham, of Masterion, Wellington, New Zealand, a letter which contains a reference to a fishing expursion to the Rua-Zealand, a letter which contains a reference to a fishing excursion to the Ruamahunga River, Wairarapa, Wellington, N.Z., which I think will interest your readers. 'I and Galway,' my brother writes, 'went to Holmes's place on the Ruamahunga below Bidnells. We got fourteen lish averaging 5th, and had the weather bean more favourable we could weather been more favourable we could have taken fifty. The habits of the fish are peculiar. You stand or sit on the have taken lifty. The habits of the fish are peculiar. You stand or sit on the bank about 10ft from the water, and watch them promenaling up and down the river close by the bank. Each fish appears to have its own promenade, and does "sentry go" backwards and forwards up and down the river. They do not take the slightest notice of you. When the fish comes opposite to you, you put a kerst about 3ft above \$\int\_{\text{is}}\$ nose, it swerves a little and gulps it in, you count three and strike, then it fights like anything. You watch the whole like anything. You watch the whole operation, and the brighter the sunlight operation, and the brighter the sunlight the more fish you catch. We were about two miles above where the river runs into the lake. There is a slight current, and the river is about 100 yards wide. When the fish gets to the top of his promenade he meets the other fish coming down; they apparently salute each other and turn, but if either fish should be apparently salute each other and turn, but if either fish should the strength of the pass on the other one's beat, he goes for him at once. We saw this several time. Some of the fish were not three yards from us when the locust was dropped over their nos locust was dropped over their noses. It was the most extraordinary fishing I were did, and you know I have some experience. I must have another go at them. To show you how certain you are of your fish, we were just starting away in the car, the rods packed away, and the car moving on the slowest speed, when Holmes, who could see the water, said there was a big fish coming down. I stopped the car, put my rod together, attached the east, put on a locust, and attached the cast, put on a locust, and caught the fish, 87th. If they do not see the locust when they are going one way, you wait until they come tack, because you know that this will be the way, you know that this will be the case. This may sound like a trout yarn, but it is the absolute truth."

An Irishman and a coloured man had An Irishman and a coleured man had a grievance, and agreed to submit its settlement to provess. They further agreed that when one of them was licked, and wanted to stop, he was to yell "Sufficient!" and the other must let him up. In a secluded spot they went at it his and heavy. After half an hour the coloured man gave up and whispered from the hottom of the mix-up, "Sufficient!" "Be-gorry, what a minitry ye have!? and the Irishman. "Of ve been tryin't think of thot wurd for the minits."

#### RHEUMATIC CRIPPLE

Mrs. Violetta Rogera In Agony Day and Night Bed-ridden for Montus Doctors Gave Her Up No Rheumatism 2000. Williams' Pink Pills.

"I was so crippled with Rheitmatism that the doctors said I would never was k again." Said Mrs Violetta Rigers, Manchester-afrect, Christehurch. "It was as much as I could do to feed myserf, Morning after morping I had to be dressed and carried from my bed to the dimigroson. There, on the cond, I would be until beddime, as helpless as the day I was born. Every joint and every muscle in my body was filled with proc. If I wanted to turn from one side to the circe someone had to more me. My moons and grouns could be heard in the street. Life was such a misery that I often prayed for was such a misery that I often prayed for Death. The doctors could lind no way to ease my pain. They said my case was hopeless. And so it was — (ii) I started Ir. Williams' Pink Pills for Pate Pepic. Before four months were out, they put me of four four months were out. "I was so crippled with lineaunalism thet wantams 19th Pills for Pate People, Be-fore four months were out, they put me on my feet as strong and active as you see me to-day. I tell everyone that a d-zen lookes of Dr. Williams? The Pills are worth all the doctors and all the medicines that money can how.

can buy.
"Six years ago I got my first attack of
Rheumatism," said Mrs Regers. "Somehow

"Six years ago I got my first attack of Rheumatism," said Mrs Rogers, "Sometow I think it must have been in my bloot for years before it started to better me. Built grawing paties came in my shouthes and their spread down my grans, in a few drys, my flighers were so stiff and swolfen that could not close my hands. My arms were raise my hand to my hands. My arms were raise my hand to my hands. Every day the Rheumatism spread further. It was so bed in my back that I had to ery out every time I stooped. Little by little the pain worked down my legs. My knees got stiff, and were alt red and swolfen. At last, every bone in my body acheed. The pile were medwn to a wrock. I became weaker and weaker. Intelligence, "Couldn't move hand or foot." "All the neighbours know how cripped I was," added Mrs Rogers, "From my heads to my tees, I was so mass of pain. It was even in my eyes. In fact, I was almost blind with the agony I soffered. Often they british were sore and tendent, Often they british been battered and brushed. I could not jear anyone to come near me. All my joints were sore and tendent, Often they british the ire. I had to have two publics of guite they are any long that he home. My husband get had everything that money could buy. But for all that the Rheumatism got worse. My feet swelled up to twoce their are, and I thought I had broopy.
"Year after year I sufficed like this. When the doctors could do no more for me. I tried every mortal thing that people said was good for Rheumatism. In spite of it ad. I went from bad to worse. At fast, I gave my all hope. I saw nothing alone. I was a major of the home in the first and the doctors had given me up, yet she did not soe me. All the time she sat by my bed, I was in agony. She knew that as the doctors had given me up, yet she did not not given me a better appeits than I had had for many a long disy. Two more bace seemed to make me stronger and gave me tresh heart. My joints and messeles were not nearly so stiff, and in a lettle while I got back the use of my logs

nked. Twelve boxes of Dr. Williams' Pink Pink cured mor fitnermatism that the doctors could not even ease. To this very day the neighbours will tell you that they never expected one to wait again. My one regret is that I didn't try Dr. Williams' Pink Pink momer. They would have saved my years of suffering and expense."

Dr. Williams Pink Pink cured Mrs. Rogers by driving the rheumatic pole-or out of her blood. They actually make new blood just that; nothing more. In the same way, they drive out the germs of other diseass, and build up the blood to carry hearing, wealth and strength to every need and corner of the body. In New Zealand, Dr. Williams' Pink Pills have cured the worst cases of bloodlesaness, indicestion, bilinouscess, liver complaint, kidney trouble, weak langs, asthma, inducing, headaches, backaches, laming, sciatlea, neutralpia, nervousness, spinal weakness, skin companels, and the special attiments of girls and women whose blood supply becomes weak. Smilly or brought, if answer tries to pain off substitutes on you, write for the genume 19 10r. Williams' Mediciae Co. Weilington—Walled advice given free.