Stientific.oom. 217

Lake Eile

subject to a change in its level by the move- when, an extremely loud thunder clap, oc. 1 8. They are both lusty and hardy. They tained, instead of the poisoning trash now so ment of the tides. The motion produced by curred. I had not advanced fifty paces when are not apt to be napped by early or late frosts, widely disseminated. the winds, and known by the name of waves, a second thunder-clap, accompanied by light- or scorched by fiery suns. They are the last is much less regular. The wind, striking ning and rain, caused me to run. Instanta-things to be drowned out in a flood, or to dry the surface of the sea in an oblique direction, neously I perceived myself to be enveloped up in a drought. Give them a foothold in lity of carrying out this improvement of the pushes some of the water on the surface over by so powerful a light that my eyes ached the soil, and the smallest possible chance of agricultural mind; and what I have to say that which is contiguous to it, and thus raises considerably, and at the same moment my life, and they will take care of themselves. ft above the common level, until so much was hat was hurled from my head, although there A. They are both amazingly prolific. It and involves the highest and most precious ter is accumulated that the wind is unable to was not a breath of wind. The pain in my has been said that a single plant of the weed, interests of our beloved country. maintain it in that position, and it falls down eyes became so great that I was apprehensive called "sow thistle" will produce over eleven. The soul of all success in any business is Each wave presents a gently ascending sur- of being struck blind; but the rain which now thousand seeds. We will not venture to cal- method. What would become of the merface to the windward, and a particular descent fell in torrents on my head recovered me culate how many mischievous seeds may chant if his day-book and ledger were not leeward. The elevation of the waves varies very quickly from a state of bewilderment, spring from a single weed in the heart, but kept with the most methodical accuracy? according to the strength of the wind. A which may have justed seven or eight seconds, we know that such things are very prolific. What would be a the banker, the tradesman, rather heavy gale raises them from six to eight and I perceived that my eyesight was unim- 5. Both are costly and destructive. Though or the scholar, if all their operations were not feet above the common sea level; but in very pared. On going to bed I took out my watch, no toil is required to rear a crop of weeds, conducted by the same regular processes? strong gales they attain an elevation of thirty and I became then aware that the electric they eat up the goodness of the soil, and de And what hint is so powerfully suggested to feet. This motion of the surface of the sea fluid had passed through the left pocket of prive those plants which are valuable of their the farmer, as this very method, by her with is not perceptible to a great depth. In the my waiscoat. The chain to which my watch proportion of neurishment. It has been esti- whom he holds constant communion.—dame strongest gales it is supposed not to extend was attached was not damaged, but the swivel mated that a single weed the red root has Nature herself? The seasons, spring and beyond seventy-two feet below the surface; was destroyed. A gold ring, confining several occasioned greater loss in some countries summer, autumn and winter, roll round in an and at a depth of ninety feet, the sea is per-trinkets, was severed in five places, and the than if every dwelling house had been consu-eternally regular succession. The seed gerfectly still. The form and even the size of watch-key, which was made of steel plated med by fire. One of our contemporaries, on minutes, the blade appears, the ear, the blosthe waves vary according to the depth and with gold, was carried away, but the gold the supposition that each farm in the United som, and the grain—each in its turn, succeed extent of the sea. In shallow water, where plating remained periect. A small silver States produces on an average three tons of the other by the same unvarying method, the lower part of the waves approaches the pocket compass had its poles inverted. In weeds annually, calculates that the aggregate Animals are brought forth, nourished and bottom, and meets with resistance, the waves the morning, happening to wind up my watch; crop would be enough to load a continued matured by the same unchanging law. The are abrupt and irregular, and this is also the I found that the works were in order, and train of farm wagons three thousand miles rain and sunshine, the frost and the dew, the case in confined seas; whilst on the open that the effect of the electric fluid upon them long-or twenty thousand canal boats-or, storm and the calm, are always punctual in ecean they are wide and long, and rise and seemed to be limited to causing the main more than ten times all the whale ships be their season. Why therefore should the farfall with great regularity. When the waves spring to run down. In the same pocket with longing to the country—with this useless her-mer, in the midst of all this regularity, be the run to a slow shore, the slope of the ground my watch were a small medallion, in Berlin bage. breaks their force, and they terminate in a iron, circled with gold, and a small gold key, even in dollars and cents, of the bad habits of existent? Why, on the contrary, may not tranquil manner; but when they are impelled these had disappeared, through the hole in our countrymen? But no money valuation, all his operations be conducted by a fixed led by the rock, they produce what is called a no other inconvenience than a stiffness in my loss sustained from this cause. surf. This evident rising of the sea on a rocky spine, such as might result from severe phycoast, sometimes attains an elevation of an sical labours, but neither my skin nor my ground, they both became very difficult to in a regular order; his time and that of his bundred feet above the sea level. The surf clothes, with the exception of my waistoon, extirpate. If you would eradicate a noxious laborers disposed of according to a regular hundred feet above the sea level. The surf clothes, with the exception of my waistcoat, is slways dangerous to pass, except in boats showed any sign of the electric fluid. Duof a peculiar construction. The waves do ring my residence in Spain, I contracted the not subside simultaneously with the wind. The sea continues in its agitated state for waistcoat, a sash of red silk wound live or many hours. The air being little agitated, or not at all, is unable to depress the undulations sash have acted as an insulator ! My money, of the sea, and therefore the waves during a calm after a gale rise higher, and their most on the same side as my watch, was untouchelevated part forms a more acute angle than ed." Athenacum. during the gale. Such a state of the sea is called a hollow sea.

Chemical Appliances to Industry.

Dr. Playfair, speaking of chemical appliances to industry, as a characteristic of advancing civilization; remarks: European inations as they increase in wants, examine every material to see if it be adapted to their phenomena and properties of each body, so land, and the shamrock of Ireland; and when as to ascertain how far it may be subservient the honest Caledonian and his friends saw to their desires. In these investigations, this familiar flower of their native land bloom-Chemistry offers vital aid : she, like a prudent ing around their new homes, they almost wept the daily traffic, are carefully collected by her, a colonist, "was liberally supplied to friends and reappear in the form of swords and guns. far and near, and soon the down was seen The clippings of the travelling tinker, are soaring over the hills of Tasmania, bearing Their swelling necks, and in his giant grasp mixed with the parings of horses hoofs from the seed in its flight, and the thistle was no Bruise them, and rend their flesh with bloody nails, the smithy, or the east-off woollen garments longer a stranger in this our adopted coun-of the poorest inhabitants of a sister isle, and try. But, mark the result to The thistle soon soon afterwards, in the form of dyes of the manifested himself an usurper, and took pos-brightest blue, grace the dress of courtly session of the soil to the exclusion of the na-dames. The main ingredient of the ink with which I now write was possibly once part of colonists began to take the alarm. Large the broken hoop of an old beer-barrel. The paddocks were overgrown with the permissions bones of dead animals yield the chief constituted, and not only was the pasture land deused by her to flavour blancmanges for her Among the innumerable enalogies that may tion is benefitted. This economy of the Chemistry of be traced between the phenomena of the use-Art is only in imitation of what we observe the control of the con

M. Biot communicated the following interesting account of some very curious electric
phenomena in Paris. The circumstances ture and multiply without cultivation. What pable to judge of that worth.

What pable to judge of that worth.

Sth. Prejudice, that mighty opponent of all ture will produce ten ounces of ice.

and in whose veracity he has the greatest con- moral pests ask only to be let alone. Neglect great measure abated, fidence. "I was walking home," says the is the only care they require. Do nothing, Nearly the whole sea is, four-times a day, latter, on the evening of the 17th of May, and you do all that they ask. habit of wearing over my shirt and under my which was in a purse in my trousers picket.

Louis Newolcon munify after of nervous in

From the New England Far mer ANALOGIES WEEDS AND HABITS OF he

housewife, economises every scrap. The for loy over the recollection it brought to their horse-shoe nails, dropped in the streets during hearts of their fatherland. "The seed?" says tuent of lucifer matches. The dregs of port stroyed, but, in some cases, the land became least) as follows: wine, carefully rejected by the port-wine inaccessible to man or beast; and in autumn drinker in decanting his favourite beverage, the seeds mount in the air, looking like snow, rous is the tree; the firmer the foundation, are taken by him in the morning in the form and I have seen the grass perfectly white with the more steady the building; the purer the of Seidlitz powders, to remove the effects of the down. The mischief is irreparable, and fountain, the clearer the stream. The imhis debauch. The offal of the streets and the the thistle will never be extinguished in Van provement of the agricultural mind strength-

Art is only in imitation of what we observe tural and of the moral world, there are few arts, developed in landscape gardening, are

food."

sufficient to overrun an island as large as abroad to detrid be a moderating effect on the mischievous seed which a man sows in political contentions, when the public mind is

spring up afresh in another, to mock your la- vator. bors, and vex your soul. So it is with a heart long overgrown with the weeds of bad habits. What a long, and stern, and sorrowful struggle will it require, to reclaim that dreary waste, to make it again to blossom as a garden! True, terribly true, is the record which ome years ago, a Scotch emigrant to declares that it is as difficult for those to do Van. D ieman's Land carried with him to that good that are accustomed to do evil, as for distant colony a package of thistle-seed. The the Ethiopian to make white his dusky hue, this tle, our readers are aware, is the national of the leopard to change his spotted skin. ministration; they observe and investigate the emblem of Scotland, as the rose is of Eng-Southey has pictured this struggle with confirmed bad habits with great vividness in the following lines, with which we close this so-

ber, though not unseasonable homily: Two snakes of monstrous size. Which ever at his head Aimed their rapacious teeth, To satiate raving hunger with his bram. Milani And howl for agony;

Feeling the pungs he gave; for of himself Co-sentient and inseparable parts. The snaky tortures grew."

mariy ' goods autone for India, all which Intellectual improvement among Farmers.

The advantages of intellectual improvement among farmers, are (some of them at

Ast. The sounder the root, the more vigowashings of coal-gas reappear carefully pre- Dieman's Land, while the curse pronounced ens this root, consolidates this foundation, served in the lady's smelling-bottle, or, are upon the land for Adam's sake is inflicted." purifies this foundation. Hence the whole na-

At a recent sitting of the French Academy, his heart, will bear a crop of weeds out of all less trable to imposition; more determined on

man who was the subject of the phenomena, less of care and labor; but these natural and reason, improvement and truth, will be in a

6th. Sound literature will be circulated and read to a greater degree than has yet been at-

7th. We shall have a national literature. I now proceed to show the perfect possibiwill be applicable to every farmer in the land,

Who will venture to estimate the cost, only thoughtless, irregular, confused being against an elevated rocky coast, being repel- my waistcoat pocket. As for myself, I felt however large, can approximate to the real plan from year to year; his farm be laid out in a regular number of fields, in which a re-6. Again, if suffered to remain long in the gular rotation of crops may follow one another plant, you must take it in hand at an early system; his family and household operations stage. If you wait till its seeds are wafted to conducted by the same regular method from every corner of the field, and its roots have day to day? All this planning may be done spread deep and wide, it will mock your ef- with an immense saving of time and thought, six times round my waist ... May not this silk forts to exterminate it. You may cut it down, compared with the usual rambling, shambling or pluck it up; you may burn it, or bury it; way of doing business; and when once it is you may fight it manfully and patiently; but settled there is no more thought about it. All while you are subduing it in one spot, it will is as regular as clock-work.—Albany Culti-

Fattening Cattle in Stalls and in Sheds.

An experiment has been made in Scotland to try the comparative value of these two modes of fattening cattle. Ten animals having been chosen, were divided as equally as possible; five were put in a sheltered court with plenty of shed room, and the others into boxes. At the beginning of October it was soon found that those in the court eat 134 lbs. per day, while those in the boxes eat only 112 lbs., or 22 lbs. less, thus proving that a certain degree of warmth is equivalent to food. After seven months, toward the end of April, they were all slaughtered, and the following results were found :--

Cattle fed in boxes. Beef. 3,262 lbs. Tallow. 6,678 lbs. Cattle fed in courts. Beef. 3,416 lbs. Tallow. 6,051 lbs.

These results show the superiority of feeding in boxes. It is thought that in a less mild winter they would have been more striking. In the course of the experiment the thermometer rose to 50 degrees, and the cattle under cover seemed to suffer from being too warm. It was found a trifling expense to comb them regularly, which speedily produced a very marked improvement. - N. Y. Tribune.

VARNISH FOR BOOTS AND SHOES .- Take a pint of linseed oil, with half a pound of mutton suet, six or eight ounces of bees-wax, and a small piece of resin. Boil all these in a pipkin, and let the liquid cool till it is milk warm. Then with a hair brush lay it on new boots or shoes. If old boots are to be varnished, the mixture is to be laid on when the leather is perfectly dry:

The soles of boots for wet weather should always be kept saturated thoroughly with tallow, mixed with a little resin, or with the above composition. In either case, the leather must be dry before it will absorb the oily mat; ter: You can have your choice, to fill the pores of the leather with water or grease. When one has possession, the other "can't come in." all nov more states black form

ARTIFICIAL ICE.-Mix four ounces of ni-