sceds, if secured from dnmp, will remain sound a long time. Turnijus, leet, cribbage and madish seed will keep for five or six yenrs; beans nearly na long, if in pods; kidncy-beans are good even the third yenr, if in pols niso, otherwise they cannot bedepended on nfter the first year ; carrot seed will keep to the second or thiril year; in $n$ wonl, it is of more consequence thint seeds should be henys, and of the colour which shows ripeness, than new. The best corners or places in the field where nre the wheat, tho barley, the oats, dec., should be selected for seed, nud carefully preserved. Such enro will do far mora for the next croptian all changes of eeed.-As soon as the whent is cit down, overy menns ehould bo employed to encourngo the growth by the young Timolhy Grass or Clover. It is not unusual for farmers to nllow their sheep nud cattle to browse nud graze in such n field. This is exceedingly injurious to the coming hay crop, while it does little or no gond to the cattle. It would oven be of great advantage to pat n linte fine mould on the young shoots in the shape of top-dressing. The expense of nill this will bo nmply rffunded by the next crop of llay,-In plucking the fruit off the trees in orchards, great care shonld be exercised; all shouh be handpluckeri, ns it is called, nud not shaked by force from off the trees. 'This method of shaking is exceedingly injurious not only in eo far as the preservation of the fruit is concerned, but for the crop of the following year. The buds that are to bloseom sin-epring nre all formed tho prorious yenr: Many of them have grown side by side with the fruit, and when these are violently sknked off the tree, hundreds and thousands of the buds are destroyed. There is thus the strongest necessity for cars in taking tho fruit, off the trece.-And now, too, is the time, as already hinted, for laying plans and making preparations for the following spring. This is the custom at home, and it ought far more to be the custom in this country, where the spring is so short. We are petsunded that nearly n third more might be made out of farming and gardening in this country were all done thrit conld be done in nutumn.Taking into account the excellence of the clinnte in this country in qutumn, it is more than a compensation far the very brief and oftimes bleak wenther in spring. 'This is the senson that ought to be devoted to improvements.

## SCIENTIFIC.

To the liditor of tho Journal of Ellucation and Agricaliuro. Rev. Dh. Fonnester,-

Sir,-I would now give the readers of your Edncational Jourmal the promised details of the invereating Geological discovery reported in your fnat number. The Thecodont Saurian remains ilhat I lave found consist of twenty-one teeth. or ten pairs and a single ore.
Thoy were discoverd in a conl mine on the property of Mr. Firaser. the locality being described by Professor Dawson, in his Acndian Geology, us " to the snuth east of New Glasgow near the new road to the Pine tree gut." They were imbedded in a layer of lituminous Shale, which is about two and a half feet thick and forms the roof of the mine. These Crocoditean remains were nssociated with small Stigmaria and Calamites, probably a part of the Satarian's jungle. There vere also Ganoid scales of varipus figure, and some of them of considerable size and thickness ; teeth, small, 'sharp and conical ; larger conical and longitudinally striasitriated, coprolites or fossil excrements of fishes and other remains, probally of his victims.
I. shall attempt to describe the atpearance and propertics of the tecth in question as intelligibly as I can. As I cannot linve figures necompanying my description I shall refer to $n$ figure contained in the valunble work already referred to, expecting that most of your readers who take an interest in such subjects have the Acadian Geology in their gusses. sion. Like those of the Bathygauthus Borealis, represented in Fig. 8, they are conical, compressed, recurved, i. e., curced toward the gultet, serrated like a certain kind of sickle, but externally as well as internally, the two cuamel
edges being thercley rendered better adapted for cuthing, thay present a similaf transverso section, and their pulp cavity is elliptical.

They differ, howevor, from those figured in othor respects. With one exception they are in pairs-lhere nre two teeth for eiery rout-in every pair the alternnea teeth arosimilar in form, but wro generally different in dimension-so that when in silu and commed loward tho gullet, the litst and third and second and fourth, \&ec., were of the same thupe, but of sarying size. Tho first of ench pinir when counted in the samu direction is trunented, the crown is levelted ex. ternally and rounded, and it is recurved slighty: the necond is not truncated and is verv inuch recurved, nnd is nbout ono half larger than the throt: the two largest of this kind aro rather nore than two thirils of the sizo of Fig. 349 in tho f $d_{1}$ Didition of L,yellis bilements of Geology, nud therefure they are eneh more than twice tho size of the tooth of the Thecodontosaurus there represented. In every pmir shis rolative proporion is obsurved. Thes tivo largest pairs are of equal size, tend the remmining six puirs vary from nbout 7.8 to 1.8 of the size of the larged. Thay are all serrated, bue ginuing a little below the crown and reaching within a littlo of the base: so that this smurian monster uppesara to havo been anr.ply supplied wihh hooks for securing his Grnoid victim and wenpons for diepmateling it.

There is also eomething like $n$ small tonth briween the larga ones of ench pair, which, when broken near tha root, presenis a circular crosa section.

The shane of the ront is somewhat singular: it projects inward in the form of a triangle with its vertieal angle rounded and the teeth riving lateratly from the hase: a flattened henrt-ahaped prominence a bitile removed from tho teeth, with its puint rxtending to the rounded vertex, occupiea the greater purt of the surfice of the ruot: viewed in protile it appears of comsicicrable depth, and from the midulo of its under base there is a downward projection, jutting out consideralily buyond the outside of the treth: so that theso formidable instruments of death must linve buen firmly planted in their sockets, and in every way fitted for their destructiso offec. From titeir similarity of direction in regned to their routs they all appear to havo belongel to the lefi side of the lower juw, or to the right side of the upper, or partly to both -if they belonged to one jaw, as is not improbable, it merit huve been as well supplied with teeth as the great Gevinl of the Ganges.

I have referred to one of the number as single: this tooth has a root for itself-this root in the specimen can only bo seen in protile, it wants thes downward projection which the others hase and the heart shapeed projection, and appo ars to be oblong rather than trinngular: the tooth is compressed, recurved and serrated : is slupued like a pruning hook, faces toward the root and is about 14 of the size of the largest tooth, so that it appears to have been a frontal touth. Wo hase, therefore, in all a fruntal tooth and twinty lateral tecth of this Saurian. I had hopeal to meat with inore of its remaina, but, unless they be found in one or other of tho mines that are or may be opened in the neighbourhoorl, there is no probability of this hupe being realized, as the mine where these remains have been found is exhausted, abandoned, and being rapidly filled with water.

From the preceding description it will appear evident to any one who has studied such subjects that the teeth which we have discovered have, as we have assumed, belonged to a reptile of the Şaurian fimily. Wa do not, however, presume to nffirn that this discovery has added $n$ new reptilo to the few of this class which have bren found in the Luwer Carboniferous Systein, IVs shall leave this to be decided by a competent comparative anatomist. I intend to send a pair of the teeth to Dr. Lecidy of Philadelphia snd endeavour to recerve his opinion on the subject.

Here then we have another fact subversive of the progressive development hypothesis. In one of the oldest sepul. chres of the animal world the remains of a reptile of a high order of organization have been fount, where, according to this monstrous theory, no such remains could possibly exist.

