knowlodge, and take great care to sustain tho lessou with abundant resources, for if it is onco lost, it is a very diflicult thing to regain it on the same lesson.
8. Pictorial jower. Worl-paintiug by tho aid of the imagination and nuple details; the power of describing scenes and incidents, so as to appear real to the child'simnginntion, will assist you in gaining his attention. If you will dwell on all tho littlo details of a fact clearly, you will be graphic in picturing it out in words; and without these details, the teacher may sometimes be very graphic with children, evon in the simplo act of reading with suitablo emotion, emplasis und action. Said a littlo girl, "Oh father, Mr. F', the minister, read the 21st chapter of Revelation in church to-day, and it was just as if he had taken a pencil and papor and pictured it right out before us." It is St. John's elegant description of the Loly City.
0. Avoid a stereotypei ur routine mode of teaching. If ever so good, strivo to improve it ; vary it and freshen it up in some way, and thus keep each child expecting something.
10. Awakening curiosity. Archbishop Whately says: "Curiosity is the parent of attention; and ar teacher has no more right to expect success from thoso who have no curiosity to learn, than a husbandman has who sows a field without plowing it." Duly regard their love of approbation by cherishing their selfrespect; and if you would retain attention, paticutly cultivate their inquisitiveness, for it will prove one of the grateful rewards for ycur kinduess. Says an old writer: "The general occupation of infancy is to inquire. Education directs their inquiries." Therefore bear patiently with your little ones, and auswer all their endless questionings. Do not rushly check the rising spirit of free inquiry with in impatient word or frown. Says the poet:-
"Answer all a child's questions, and ask others as sinple As its own, yet wiscly framed
To waken and prove tho young child's facultics, As though its mind was some sweet instrument, And you with breath and touch were finding out
What stops and keys would yield the sweetest music."
-Selccted.

## TO MAKE CHILDREN THINK.

AT the Teachers' Institute, recently held in Providenco, the following question was proposed by one of the teachers present: My pupils do not think. What shall I do to make them think?" This complaint and inquiry appears in its most expressive form, just as it comes from the lips of the teacher, who
"With strained and tired nerves,
With weary and aching head,'
Has been trying almost vainly to instill a fow valuable thoughts into the mind of some pupil whose attention is preoccupied. The inquiry is a difficult one to answer. What would prove successful in producing satisfactory results in one case, might be of little avail in another. Pupils, as well as teachers, havo differcut dispositions, and are affected in different ways. Various theorics might be presented, the practice of which would at least seem sufficient to obviato any difficuities which might arise in regard to thoughtless pupils. Jut actual experienco which have proved successful, we believe will be more heartily receired than untried schemes. We. heard this same question asked years ago by an experiena.: teachor; and when the suggestion was made that she should win the attention of her class, by telling them stories in connection with the lesson, or calling upon individuals in the class to do so, her answer was, "What shall I do with the boy who dees not care about the rhionoceros?" In this instance the stuly under discussion was geography. Now, in many instances, this guestion is asked with uo intention of being bencfitted by a reply; Tho teacher may lave tried the plan once, aud becoming irritated by the failure to eugage the attention of some indiferent pupil, determines to confine herself to the book, and force the scholars to commit tho words by penalties for failures; and so the schooldays pass. Such a decision imperils the teacher even more than the pupil; for under present customs and arrangenents (in the country by change of teachers, and in the city by promotions,) the scholars change teachers so frequert as to sceure a variety of talent, while the teanher who has resolrcd to confine herself to the toxt-book, fas fired for herself a routine which will be almost insufferable. Some teachers we know, by the judicious dropping of facts accumulated by their own reading, havo been able to clovato the taste for reading amoug their scholars, and to set them upon a track of pursuing such books as would bo intenscly interesting eren to the teacher; and with all their vari ed tastce, the items called out from the class can scarcely fail, in process of time, to interest the mostindifiuent. Buy somo interesting book, if you have not a school library, and sacrifico it to the wear and tear of tho school-room. You will be amply repaid by acquiring the information yourself, by hearing it reiterated in the scioolroom, instead of haring it nicely bound between two covers and standing untouohed in your library or on your parlor table. Most
children are fond of novelty. Nothing is bettor adapted to keep their attention than constant clange. The dry dotails of any branch of study soon become irksome to them. They are wont to let things pass through their minds, rather than to think of them. Thoy become satisfied with secing or hearing what is said, without going farther. Let each recitation be conducted with much oral instruction, mimating them with choice facts and pleasing incidents, intorspersed whero circumstance requires or opportunity aflords. Accustom the scholars to study systematically. Often read to them, or require thon to read, and induco thu.. to express the thonghts of the author in language of thoir own construction, kindly correcting mistakes in thought, and encouraging the pupils to further cflorts by due praise and commendation, and you will havo awakened a now impulse to thought, that will grow und strongthen as you foed and nourish it.-R. $I$. Schooluasier.

## WATER.

by dr. J. A. sEWilit.

Water is a fluid that exists in great nbundauce, both on and in tho earth, and in the things upon the carth. It is fourfifths of the weight of the vegetable kingdom, and three-fourths that of the amimal. It is essential to the continuance of all orgavic life. It is composed of two gasses, oxygen and hydrogen, eight parts of the former to one of the latter (by weight.) It dissolves gasses in rarious proportions: ammonia, spren hundred times its own bulk; carbonic acid its own bues or volume; therefore there is in nearly all water, more or less of these gaseous matters. They give to water its sparkling appearance, and agrecable flavor. When water is boiled, then these gases are driven out, and the liquid becomes insipid.
Rainwater, which has passed through the porous soil and strata of the earth, dissolves such portions of its soluble materials as it mects with. The amount of mincral natter thus dissolved, varies greatly, from 1-20th of a grain to 20,000 grains in $\AA$ gallon.
Common spring and well water contains from ton to sixty grains to the gallon.
The well water of our State is nearly all surface water-tbat is, water that has passed through the more porous soil, and has been arrested by the more compact layers below. When a well is sunk the rater finds its way into tho hole in the ground, thus furnishing us our drink.
As the water filters through the soil, it dissolves more or less of the minernl matter with which it comes in contact, as well as organic mattor. Tho latter is particularly bad or unhealthy.
John (you know John, Mr. Editor,) took a bottle of well water into the laboratory, and interrogated it as to what it contained. On adding nitrate of silver it yielded a copious precipitato of chloride of sodium, common salt; osalate of ammonia revealed quantitios of lime; chloride of barium shored marked traces of sulphates; lime found carbonic acid; sulphurated hydrogen gave indications of iron; carbonate of soda revealed large quantitics of mignesia; white terchloride of gold brought out a mass of organic matter, of all sorts, a regular soup.
John said ho believed that the water mas difty, though it appeared perfectly clear and transparent, it was full of dirt. So I think that if folks will drink ucell valor they must drink tho dirt too.-Bloominglon, Illinois, Scloolmaster.

## THE VILLAGE SCHOOLMASTER.

Beside yon straggling fence that skirts the way,
With biossomld furze unprofitably gay,
There, in his noisy mausion, skill'd to rule, The village master taught his little school. A 'an severc ho was, and stern to viow; I knew him well, and overy truant knew; Well had the boding tremblers learn'd to trace Tho day's disasters in his morning face; Full well they laughed with counterfeitod glee, At all his jokes, for many a joke had he; Full well the busy whispor, circling round, Convoy'd the dismal tidings when ho fromn'd.
Yet he was kind, or, if severe in aught,
The love he bore to lenrning wrs in fault. The village all declared how much he knew, "Iwas certain he could write, and cipher, too; Lands he could measure, storms and tides presage, And cecn the story ran that he could guage; In arguing, too, the parson own'd his skill, For even though vanyuished, ho could arrue still; While words of learacd length and thundering sonud Amaz'd the gazing rustics ring'd around; And still they gazid, and still tho wonder grew, That one small head could carry all he knew.

Goldsmith .

