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## Coming to Chautauqua



SUNG THEIR LESSONS What Causes It and What Would Hap-

Geography Set to Music an Old Time Teaching Scheme.

A PLAN OF YANKEE ORIGIN.

One of the Most Popular Airs In the List Used to Interest the Pupils In Their Studies Was "Auld Lang Syne"-"Bonny Doon" Also Liked.

Singing geography was a popular fad in the educational line in New York in olden days, particularly in up state school districts. It was of Yankee origin. It was never made part of hours.

A set of wall maps known as Pel- tions, and their elasticity on being reton's outline maps was used. There were no names of geographical divisions or places on them. The instructor would go over the map on which the lesson was found, pointing out with a pointing rod the different countries, cities, rivers, lakes or whatever | They are made of brass instead of might be the subject in hand, and at steel. the same time the name of each division, place or body of water would

usually a man, would lead the class chorus as he pointed, and if the subtune of "Bonny Doon:"

Let North America be first In our descriptive rhyme rehearsed. Its northern bound the arctic waves. Its east the Atlantic ocean laves. The gulf of Mexico we see Upon its southern boundary. Its western and southwestern sides

Are washed by the Pacific tides. The geographical verses were contained in the pupils text book called "The Key to Pelton's New and Improved Series of Outline Maps." Among other things the following is found in the preface of one of these old time volumes:

"With respect to the versification, it is morely necessary to say that the design has been to put all the important geographical localities on the globe, in connection with much valuable matter. in a form which can be most easily committed to memory, and it is confidently believed that the exhilarating effect of harmonious sounds will greatly facilitate the acquisition of this knowledge, and care has been taken that none but popular and approved airs be inserted in the work."

"Auld Lang Syne" appears to have

been regarded as an especially "pop-

ular and approved" air and was often

used. In the very first lesson the pu-

by singing the following to this tune:

The earth is a large ball or globe

Whose surface has been found

And but one-fourth dry ground.

Two hundred millions of square miles

Earth's surface does embrace.

Now in modulations sweet

Asia's rivers we repeat.

Irtish river next.

Sibon river see.

in our melody

thus defined:

is placed.

are traced.

ico be found.

Ural river next in place,

Kizil Irmak then embrace

Obi first in Russia greet,

Lost in sand behold Helmund,

Be not turbid Oxus shunned:

Then northward seek Yarkund;

Attruck and Koor river trace;

There were thirty-one states in the

Union when singing geography was in

vogue, and the pupils were taught to

bound each of them in verse. Cali-

fornia was then the newest state, hav-

ing been admitted in 1850; was the last

on the list, and its boundaries were

On California's northern side vast Oregon

Upon its southern borders next may Mex-

and broad Pacific's sparkling waves com-

In thirty-four stanzas set to the

tune of "Bonny Doon" the geography

class would make a tour of Europe

pose its western bound.

All find a dwelling place.

dress" such lines as these:

Eight hundred million people here

merged

Three-fourths with ocean waves sub-

FRICTION.

pen Without It. What is friction really caused by? Why will two things in contact not slip over each other easily? It is be-

cause every substance known to science has teeth; microscopic, it is true, but still teeth. The result, then, is obvious. If we shove a book across a table the teeth of the book interlock with the teeth of the table just as cogwheels do, and the push has to be strong enough either to bend them enough or to break them off for the

motion to continue. It has actually been observed in a microscope that if the push is only a slight one and moves the book only a short distance, on the pressure of the hand being removed the book actually jumps back to its former position. the common school system of the state. This action is a slight bending of the but was taught outside the regular two sets of teeth, only not far enough for them to lose their relaitve posi-

> leased makes the book fly back. It has been shown that this friction

is not so much between different bodfes as between bodies of the same material. One industrial application of this is the bearings for steel axles.

In some things we want as much friction as possible and in others as be mentioned in song. The teacher. little. The former is illustrated in the friction between an engine wheel and the track, sand sometimes being pour ject happened to be political divisions ed on the track to increase the friction. the song would run like this, to the The latter case is illustrated in all bearings where rotating metal is in contact with stationary metal, sometimes ball bearings being substituted. thus lessening the friction.

> Many peculiar things would happen if there was no friction. All screws in wood would immediately twist backward rawidly and shoot out into the air; trains could not run save on cog ged rails, which would probably be necessary above as well as below, thus having four rails instead of two; buildings would tumble down, and new ones could not be built unless molded in place like Edison's or else riveted together. People would have to wear shoes with long spikes in them and then have to be careful, for dirt grains would slip over one another easily and would act like deep sand. But one great thing would happen-machines would run at 100 per cent efficiency, would give out as much energy as was put into them.-Lawrence Hodges in

New York Tribune.



Nature's Process In Forming a Mountain of Lava.

THE FORCE OF AN ERUPTION.

Upheaval That Destroyed the East Indian Island of Krakatoa In 1883 Propelled an Air Wave Three and a Half Times Round the Earth.

Though volcanoes are often spoken of as burning mountains, they do not burn at all, nor, in the proper sense of the word, are they mountains at all. A volcano is really a flaw in the crust of the earth through which the fierce glowing heat lying below the crust has managed to burst a hole. Through this hole great floods of melted rock spout UD. Some volcanoes work at inter-

vals; some are in eruption all the time. As the melted rock jets up into the air and falls it naturally builds itself into a mountain round the hole. The next eruption has to burst its way through the heart of that mountain. The chimney it spouts through is usually called "the pipe."

Sometimes an eruption is so fierce that when the lava (another name for melted rock) spouts out it is burst into bits. When it falls it is sometimes as fine as dust, sometimes the size of cin; ders. Most volcanoes, indeed, are simply gigantic cinder heaps.

When the force is not so great the lava in the pipe simply bubbles over and flows down the sides of the mountain, exactly as porridge boils over the edge of a pot. As lava is liquid, the slope of a lava volcano (or lava cone. as it is usually called) is always very gentle. Falling cinders, on the other hand, pile themselves up quite steeply. A lava cone, then, is always less steep

than a cinder cone. And a volcano never burns. What looks like flame is only the glow of the white hot lava on the clouds of steam. The more steam there is forcing its way up the pipe the more the lava bubbles, just as in the case of the porridge. If the pressure of steam is very great, then you have the lava blown to bits and falling as cinders, while the mighty clouds of steam rise high above the mountain. It is this steam that is mistaken for smoke.

Sometimes a cone sends out lava and cinders alternately, so that you have

### Scared into Sound Health.

Mr. E. F. Kelley, Springfield, Ill., writes: "A year ago I began to be troubled with my kidneys and bladder, which grew worse and worse until 1 became alarmed at my condition. I suffered also with dull heavy headaches and the action of my bladder was annoying and painful. I read of Foley Kidney Pills and after taking them a few weeks the headaches left me, the action of my bladder became normal, and I was free of all distress." A. McMillen.

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### THE SPEAKER'S MACE.

#### Ancient Emblem Used In the House of Representatives.

With all its dignity, its senatorial pils were taught to describe the earth courtesy and the forms and ceremonies that always are observed, the senate is far behind the house of representatives in the matter of one antiquated piece of furniture. The senate has no mace. Now, a mace is not much in the way of furniture. It is a silver eagle mounted upon a staff around which are bands of silver.

This mace is always an emblem of Tongue twisting names did not emthe house of representatives. It is the barrass the geographical versifier, alduty of one employee to look after it. though the enunciation of all the pu-Just before a session of the house bepils probably was not perfect when. gins he takes it from the office of the for example, in the lesson on Asia sergeant-at-arms into the house chamthey sang to the air of "Bruce's Adber, and as soon as the speaker's gavel falls he inserts it in a socket in a stone pillar at the right of the speaker's chair. The mace remains there while the house is in session and is taken out and stood beside its pedestal when the house is in committee of the whole. When the house adjourns the mace is carried back to the office of the sergeant-at-arms.

mace and walks through the aisles. Only once or twice when the speaker failed to preserve order have I seen an officer seize the mace and walk through the house, waving it backward and forward. Possibly the sight of it brought members to their senses Both Utah and New Mexico upon the east and they retired to their seats. At all ing were heard 2,000 miles off. events, that is about the only real use for the mace that 1 ever have observed .- Washington Cor. St. Louis Star.

#### Sensitiveness of the Phone.

Preece has calculated that an audible sound is produced in a telephone to only one two-thousandth volt. These years. statements give some idea of the great sensitiveness of the modern telephone, but the sensitiveness of the human ear, which perceives the invisible vibration of the telephone diaphragm, is no less remarkable .- Washington Star

### In No Hurry.

"Too many people," said a clergyman. "regard their religion as did the little boy in the jam closet. His mothon tiptoe, ladling jam with both hands from the jam pot to his mouth.

" 'Oh. Jacky?' his mother cried. 'And only last night you prayed to be made a saint."

jam, turned toward her.

a great mountain of cinders bound to gether by layers and walls of lava. These walls of lava are due to the

fact that sometimes more lava wants to come up the pipe than the pipe will hold, so the lava bursts its way out through weak spots in the sides of the mountain. Etna has no fewer than 700 of these cones on its slopes. One of them, Monte Rossi, is a hill in itself, being 450 feet high. Indeed, a model of Etna looks as if it were covered with pimples.

When Etna is really roused it is far more dangerous than Vesuvius. In 1169 it nearly destroyed the city of Catania, killing 15,000 people. In 1669 it found its pipe so inconveniently small that it had to crack one of its sides. This crack was no less than twelve miles long. At the bottom white hot lava could dimly be seen through the clouds of steam. In 1755 millions of gallons of boiling water were shot out of the Val del Bove, which is a great circular pit on the slope of the mountain, four or five miles in diameter, its sides being cliffs nearly a mile high in places.

The greatest volcanic eruption ever known took place in the East Indies This ancient emblem has not a thing in 1883. The story makes almost into do with the order of business of the credible reading. The volcanic island house, save as one of the old time reg- of Krakatoa commenced proceedings ulations that are continued. When the by blowing half of itself into thin air. house is turbulent an officer seizes the From the opening no less than a cubic mile of rock was shot out.

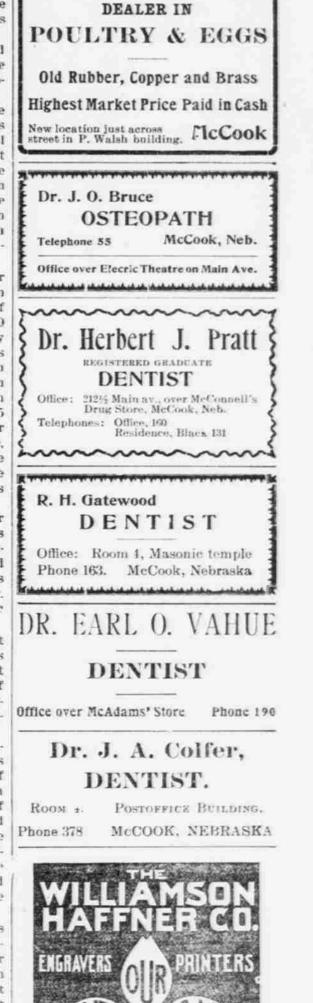
A column of steam and lava dust rose into the air to a height six times as great as that of Mount Everest. It spread and spread till for hundreds of miles around the air was black as midnight. Sounds as of distant cannonad-

Sea waves fifty feet high killed 35,-000 people and were felt as far off as California. Instead of an island half a mile high there was now a hole a

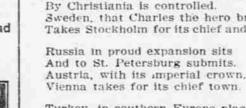
quarter of a mile deep. The shock of the eruption sent air waves three and a halt times around the earth. The and glean bits of information about by a current of 6 to 10.13 amperes, and fine dust in the upper atmosphere add-Pellat has calculated that a sound is ed for months afterward a strange produced by a difference of potential glow to the sunsets in England and between the two stations amounting did not vanish completely for three

> The exact cause of the eruptions is not known for certain. A popular the ory is that they are caused by water getting in to the white hot mass which is supposed to lie under the outer crust of the earth. And it is certainly a fact that practically all volcanoes are close

to the edge of the sea. .Some lava flows slowly, some quickly. Vesuvius in 1805 sent out a lava stream that in four minutes had reacher pounced on him suddenly. He stood ed a spot four miles off. The size of a lava stream is sometimes gigantic. In 1783 Skaptar Jokull in Iceland emitted two streams at one time. One was forty miles long by seven miles broad. the other fifty miles by fifteen. The "His face, an expressionless mask of average-depth of both was about a hundred feet.





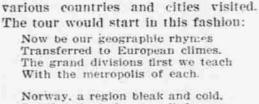


Is by Constantinople graced. Greece, once for arts and arms re nowned

Thus the geography pupils sang on through the list of European nations and capitals .- New York Sun.

Enlivened the Play.

"Monte Cristo" was playing to a "'Yes, but not till after I'm dead.' he Lava cools very, very slowly, except crowded house in a New York theater. on the surface, which cools at once. explained." In a box sat a man who had looked on It is an extremely bad conductor of the wine when it was red. When heat. Twenty years after a stream of A Matter of Economy. We now handle the best Monte mounted the rock in the sea lava was sent out from Jorullo, in Mex-Mrs. Nocash-Mercy! You let grades of Colo and Penna. WEATHERWAX MALE QUARTET invention is probably paramiable. Communica-tions strictly confidential. HANDBUR on Patonts sent free, Oldest agency for securing patents. Patents taken through Munn & Co. receive special notice, without charge, in the and exclaimed, "The world is mine!" girl off every afternoon? ico, tourists could light their cigars coals in connection with There is harmony of blood in this the man in the box shouted, "What'li Neighbor-Yes, indeed; it is such a through chinks in the surface, and the our grain business. family of brothers vou take for Hoboken?"-Brooklyn saving. The more she is away the surface had been cold for twenty years. Give us a trial order. You may hear them at Phone 262. Life. fewer dishes she breaks.-Illustrated In 1828 a layer of snow many feet Bits. thick was found under a layer of Vesu-Real & Easterday Silence is a figure of speech, unan vian lava. It was still unmelted and swerable, short, cold, but terribly se-Sloth never arrived at the attainment is probably there still - Pearson's vere.-Parker. of a good wish .- Cervantes. Weekly.



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Turkey, in southern Europe placed.

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