

NO RAIN WITHOUT DUST

Microbes Cannot Withstand the Influence of Sunlight.

Scientific men seem to agree that without particles of dust in the atmosphere for moisture to deposit itself upon we should have no raindrops and no rain, all precipitation being after the manner of dew. The abundance of dust particles is therefore useful. At the Royal Institution it was recently stated that in a London suburb 20,000 dust particles had been found in every cubic centimeter of air, and in the heart of the city 500,000 particles in every cubic centimeter. In the open-air of the city was found an average of one micro-organism to every 33,300,000 dust particles, and in the air of a room one micro-organism to every 184,000,000 particles. These facts show that the air has very few microbes, even when it is very dusty. They do not live long because they cannot withstand the influence of desiccation and sunlight. Desiccation or drying up, is one of nature's favorite methods of getting rid of bacteria.

A CURIOUS RELIC

A Copper Globe, Commenced in the Year 1654.

A globe which was commenced in the year 1654 and finished ten years later, has recently been placed in the building of the Academy of Sciences at Tsarkoe-Selo. This curious relic is eleven feet in diameter and made of copper. The outside represents the earth, and the inside the celestial spheres of the world. There is a door giving access to the interior, in the center of which there is a round table with space for twelve people to sit. By means of certain appliances the globe can be made to revolve upon its own axis. It weighs 3½ tons and was presented to the Academy of Sciences in 1725, but has up to this time been in the zoological museum at Tsarkoe-Selo.

SOUTHERN OUTPUT OF LUMBER.

In 1880 the southern lumber mills had an output valued at \$38,116,000. In ten years this had advanced to \$105,575,819. Since then there has been a steady increase in production, until to-day it may be conservatively estimated that the value of the output, including the material used for cross-ties, fuel and fencing and the naval stores by-products, is between \$325,000,000 and \$350,000,000.

FOUND ONLY IN AMERICA.

The humming bird, of which there are 1,000 varieties, is found only in America, and the adjacent islands. The only food that will be of any avail in the proposed attempt to convey some of these birds to Europe is honey. It is not very difficult to keep humming birds alive in cages for a few weeks in summer, but it is almost impossible to get them through the winter.

"DECIMAL ASSOCIATION."

An English organization known as the "Decimal Association," with headquarters at Botolph House, East Cheapside, London, England, is promoting by means of distributed literature, the adoption of the metric as the legal system of England. The matter which they sent out is interesting and may be had for the asking.

MUST UNDERSTAND STOKING.

The British admiralty office has become impressed with the idea that stoking is a work that should not be left to the uneducated laborers, who now perform the work but should be thoroughly understood if not actually performed by all naval cadets. Hereafter, all cadets or naval apprentices must take a turn at stoking.

EVERGLADES OF FLORIDA.

There is, perhaps, no part of the United States which has been so little explored as the great Dismal swamp, unless it be the everglades of Florida. This great body of land, covered with forests growing in six to ten feet of water, extends over an area of about 2,400 square miles, and its greatest length sixty miles.

LOYAL BRITISH SERVICE.

During his speech in introducing the British army proposals of the government, Mr. Broderick stated that he families with three sons serving in the army number no fewer than 300; four sons, 176; five sons, 142; six sons, 72; seven sons, 20; eight sons, 2; nine sons, 1; ten sons, 1.

CURIOUS YOUNG TREE.

The curious sight may be seen in Dover, England, of a young tree growing out of a high mill chimney in a public thoroughfare. Notwithstanding its extraordinary position, the tree has grown two or three feet high. It is believed to have its root in an old nest.

PHYSICAL KANSAS.

Kansas has 52,000,000 acres of land without mountains and without swamps; also 33 rivers, 163,000 acres of artificial forests and 14,000,000 fruit-bearing trees.

FINE SPIDER WEB.

The web of the common spider is so fine that 25,000 miles of it—enough to encircle the world—would weigh only half a pound.

PRESSURE OF HURRICANE.

In a hurricane blowing at eighty miles an hour, the pressure on each square foot of surface is 3½ pounds.

STRENGTH OF EAGLE.

The golden eagle has great strength. It lifts and carries off with ease a weight of eighty pounds.

THE FIRST GOLD PENS.

Gold pens were first made in 1840. Their sale to-day is a million and a half a year.

SIZE OF JUPITER.

Jupiter is 1,327 times bigger than the earth, but is only 300 times heavier.



The ancient Uncle Wimblewig
Once kept a store in Bumbletown.
Each day he pulled the curtains up;
When evening came he pulled them down.
Yet all day long he'd sit and cry:
"Why don't the people come to buy?"

And this is what he had to sell:
Old acorn cups and cockle seed,
A dried up apple core or two,
A faded twig of tumble weed.
Now you may guess the reason why
The people never came to buy.



Pictures for the School Room

Special attention given to this important matter of school room decoration.

Write for circulars.

The Beard Art and Stationery Co.

624 Nicollet Ave., Minneapolis.

School Supplies a Specialty.

Stamp Collectors, ATTENTION!

Do you know that we have the largest line of cheap sets and packets in the city? Our approval sheets at 50 per cent are whirlwinds. Come in and see us.

The Eagle Stamp Co

230 Hennepin Avenue.

Collections bought for cash. Philatelic Supplies.

ATTENTION, JUNIORS!

"The American Boy" is the most popular publication ever issued for boys. It is interesting, inspiring and helpful. For sample copy send four cents to, W. G. Scholtz, Representative, 2514 Elliott Ave., Minneapolis, Minn.

THE SOUVENIR BUTTONS

A Junior button is given to every contributor for his first paper printed, provided it is not a prize winner nor an "honorable mention." Only one Junior Button a year is given, and this is sent without application. The new year began Sept. 3, 1901.

An Honor Button is awarded for an "honorable mention," and is sent without application.

An Honor Button is awarded to every Junior who has three papers printed, which are neither prize winners nor honorable mentions. These must be claimed by the winner, giving dates of publication.

An Honor Button is awarded for an accepted contribution to the Storyteller column, and is sent without application, together with an order for a book.

Any number of Honor Buttons may be won.

A Prize Button is awarded for every prize paper, without application. Two prizes only in one year may be won.

All of these, except the Honor Buttons awarded for three papers printed, are sent out the Monday following publication, and all notices of failure to receive them must be sent to the editor on the Saturday following the publication.

The High School Credit Contests.

These contests are for writers in and above the Ninth grade.

Two prizes of \$15 and \$7.50 for pictures or books for the school are awarded every three months to the two high schools winning the highest number of credits.

The first prize of \$15 may be won but once during the school year.

Winners of the second prize of \$7.50 are not barred from winning the first prize. No school in Minneapolis, and no town in the northwest, will be given more than one credit a week.

A Journal Junior prize button is sent for the first High School Credit paper of each competitor during the quarter.

The first quarter begins Sept. 14, 1901, and ends Nov. 30, 1901.

The Prize Pictures.

The pictures which are given as prizes during the school year become the exclusive property of the schoolrooms upon whose walls they are hung. They remain permanently in the room which the winner attended when he or she won the prize, and under no circumstances are they to be removed to another room in the same school, to another school or to a private home.

Harrington Beard, the well-known art dealer and collector of Minneapolis is in charge of the framing and distribution of the prize pictures for The Journal. Express charges on all prize pictures are prepaid by The Journal.

How to Prepare the Papers.

Write in ink, on one side only of the paper. Leave a space of three inches at the top of the first page. Use no headlines. Put the number of words in the upper left-hand corner of the first page. Sign the name and residence at the end at the right, the grade and school at the end at the left.

The Storyteller.

Any pupil of a public school, in any part of the United States, who is in or above Fifth Grade, may contribute to the Storyteller. These stories may be true or fiction, and upon any subject preferred by the writer. They must not be less than 500 words in length, and should not be over 1,000.

BINDERS

You cannot keep your copies of The Journal Junior in good shape without a binder. There are a few substantial binders now at the office of The Journal Junior, at the very reasonable rate of 50