

WHY THE SKY IS BLUE

How the Earth Differs From All Other Planets of the Solar System.

The earth is unique among the planets of the solar system in having a blue sky. All the others are either so cloud laden that the sky is never visible from the surface, or else the air is so thin and transparent that the light is unaffected in passing.

The earth's atmosphere itself is not blue. If it were, objects near the horizon would all have a deep blue color. The blue is due to the action of dust.

If one suspends fine particles, such as soap, milk globules, sulphur flowers, or starch, in clear water the fluid immediately looks blue. This is because the particles scatter and disrupt the rays of light as they pass. The same thing is true of the air. The air is never free from dust. Even when it seems clearest there are myriads of infinitesimal grains floating everywhere.

When the water vapor in the air condenses, it forms droplets around these dust grains. The reflected light from the drops is white and it is this white light mingling with the blue which causes the sky to vary in color from hour to hour.

In addition to giving the sky its blue color, the air diffuses the sunlight. The sky is always much more brilliantly illuminated than the ground, even on the darkest day. It is this second-hand light which renders objects visible even when they are immersed in shadow. Were it not so, the interior of a house would be as dark as night, even when the sun was shining brightly outside.

If the air did not scatter the light rays, sunshine would pass through unchanged, and the sky would always appear jet black and full of stars. Such a condition exists on the moon, which is a world devoid of air. According to telescopic evidence, the daylight there is harsh. Where the sun is shining the rocks may be dazzlingly bright, while a few feet away there are shadows as black as ink.

The light from the sky tends to lessen the contrast between light and shadow. It often outlines, brings out perspective, and gives much of the beauty to terrestrial landscapes.

TIPS FOR POULTRY GROWERS

Chicks are hatched each year in order to produce pullets to replace such of the old hens in the flock as should be marketed. However, only about half the chicks hatched and raised will be pullets, the other half being, of course, cockerels. A much greater number of cockerels are produced than are needed for breeding purposes, and a large part of these should be sold as broilers or springers as soon as they have reached a sufficient size.

It is common knowledge that spring chickens or broilers are scarce early in the spring or summer than they are later, and that the price offered for them is much better early in the season. It is to the advantage of the poultry raiser, therefore, to grow his surplus cockerels to a marketable size as early as possible and so take advantage of the attractive prices prevailing at that time.

To bring this about he must hatch early, for it is only early hatched chicks which can be grown to a suitable size in time to take advantage of the most favorable market. Hatch early, therefore, and add to the income received from the sale of the surplus cockerels.

Girls Who Marry Foreigners Acquire Same Nationality as Possessed by Their Husbands

A girl who marries a foreigner without fully understanding her legal position may be courting misery. This warning cannot be repeated too often. Girls lightly enter into marriages with foreigners, quite forgetting or ignoring the all important fact that they take their nationality from their husbands. That is to say, if a girl marries a German, Frenchman, Chinaman, Indian, Greek or a man of any other nationality, she becomes subject to the laws of her husband's country, should she go there, and cannot claim protection for any injustice or hardship. To cite an instance of the danger of such marriage. A girl married an Indian, went to India with her husband, and there discovered to her horror and disgust that she was but one of four women her husband claimed as wives. He made a drudge of her, treated her most brutally, threatened to divorce her and at last drove her to suicide. Another girl married a wealthy Chinaman and was about to go East with her husband when she learned that he had already married two other girls, who had gone out to China with him and who were never heard of after.

Narrow, Stooping Styles in Men's Clothing Banished as Result of Training in Army

"Narrow, stooping styles" in men's clothing are to be banished as a result of the war, according to members of the International Custom Cutters' association at their thirty-ninth annual convention recently held in New York. "The man we must fit today is not the same fellow, physically, for whom we made clothes before the war began," said L. C. Tyler, chairman of the committee on fashions. "The rigorous army training has given him a broad, deep chest and straight back." Charles J. Levy of Toronto, presi-

dent of the association, declared that "garments will show the effect of military influence."

"Instead of being designed primarily to fit the narrow-chested man and the man with thin legs, the coats will show broad chests and narrow hips, and trousers will not be skimpy," he said. Coats will be a trifle longer and looser."

Places Below Sea Level

Death Valley, a low desert in California, is 210 feet below the level of the ocean. The Dead Sea, in the southeast of Palestine, is 1,292 feet below the level of the Mediterranean sea.

On Australian Railways

It is now possible to make a continuous railroad journey from Perth, western Australia, to Brisbane, Queensland, a distance of 3,895 miles.

HERE AND THERE

A bad beginning may mean a good ending, but the man who starts well has the better chance. Pride goes before a fall, but self-respect prevents disaster. Nobody can make quite so much trouble in this world as the well-intentioned boob. Half the fun of succeeding is in fooling the wise knockers who were sure you wouldn't.

GOOD JOKES

Both Getting Educated.
"The old man is giving Bill a liberal education."

"Yes, and Bill is certainly giving the old man an education in liberality."

The Outlook.
"What does your prospective bride know about housekeeping?"
"Nothing."
"Oh, well. Maybe she can learn."
"Dunno. She says she knows nothing, and appears proud of it."

Giving Proof.
"Is your cook good at sauce?"
"Is she? You just ought to hear her when I venture to object to anything she does."

As Life Goes.
"I wonder," said the young man, "what place history will give me?"
"History never gives any man a place," responded the older man.
"You've got to earn it."

The Reason.
"They say the French don't take to baseball, as they consider it brutal."
"That's because they've heard the Americans talking about the men who die on the bases."

Wild Pigeons Formerly So Numerous Now Absent From Favorite Roosting Places

Are the North American wild pigeons—of late called passenger pigeons—utterly extinct, as many claim? They certainly are absent from sections in which at times they were a veritable nuisance because of numbers, especially in roosting places. They were so numerous in flocks that they darkened the sky in their flight, and when the early settlers wanted pigeons for the table or for the market they invaded the roosts with clubs, at night, and knocked them down by thousands. Sixty years ago the American wild pigeons were numerous and hunters had little trouble in filling their game bags. The pigeons began to disappear with the advance of settlement, but it is not likely that the ruthlessness of hunters is the only cause of their absence at the present time from former haunts near which settlers are still few and far between. Perhaps epidemics swept through the immense flocks and destroyed them. This has been suggested by a writer in the New York Sun whose interest evoked the following from an authority on the wild pigeon: "In 1875 inbound vessels reported passing through great schools of dead pigeons off the Atlantic coast which had evidently lost their way in a fog. A friend of mine coming from Europe was a passenger on one vessel which took three days to pass through these masses of dead pigeons. There were millions of them."

Woman Uses Less Force in Speaking Is Reason She Can Talk Longer Than Mere Man

A woman can talk longer than a man, says the San Francisco Chronicle, because she uses less force in speaking than the man does. A professor has proved by delicate measurements that the barytone singer uses far more energy than the tenor, and that the bass singer uses more force than either.

The difference between the force used by the contralto and the soprano singer is marked, and the contralto who sings in deep tones uses at least ten times the force of the thrilling soprano.

The explanation is so simple that it is surprising that the investigation was not made before. It has long been known that the tenor or soprano brings the vocal cords close together and keeps the edges only vibrating by the emission of air. The bass or contralto leaves the space between the cords wider open and has to vibrate much more of the membranes, so that a considerably larger amount of air is required and much more force is expended.

Persons with high, squeaky voices often seem to be loquacious, and the reason is now plain—they can talk with far less effort than those who take a deeper tone and have to use more air to utter their words. Thus a woman can outtalk a man because she has the advantage of using from one-seventh to one-sixteenth less lung power.

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The largest-selling gum in the world naturally has to have a package worthy of its contents.

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It Works! Try It

Tells how to loosen a sore, tender corn so it lifts out without pain.

No humbug! Any corn, whether hard, soft or between the toes, will loosen right up and lift out without a particle of pain or soreness.

This drug is called freezone and is a compound of ether discovered by a Cincinnati man.

Ask at any drug store for a small bottle of freezone, which will cost but a trifle, but is sufficient to rid one's feet of every corn or callous.

Put a few drops directly upon any tender, aching corn or callous. Instantly the soreness disappears and shortly the corn or callous will loosen and can be lifted off with the fingers.

This drug freezone doesn't eat out the corns or callouses but shrivels them without even irritating the surrounding skin.

Just think! No pain at all; no soreness or smarting when applying it or afterwards. If your druggist don't have freezone have him order it for you.—Adv.

AGENTS WANTED

MEN AND WOMEN—TO MAKE THE MOST MONEY sell NRG (Energy) LAUNDRY TABLETS; the first laundry tablets made without paraffine; washes all clothes spotlessly clean ABSOLUTELY WITHOUT RUBBING; hundreds of successful agents handle NRG products exclusively because they sell fastest and repeat oftenest—the biggest money-makers—the easiest sellers; secure agency by writing today for particulars and samples to U. S. SALES CORPORATION, 525 Market St., San Francisco.

Your Eyes

Granulated Eyelids. Eyes inflamed by exposure to Sun, Dust and Wind quickly relieved by Murine Eye Remedy. No Smarting, just Eye Comfort. At Your Druggists or by mail 60c per Bottle. For Book of the Eye free write Murine Eye Remedy Co., Chicago.

Good Medicine in 7 WEEKS. Colds and Grippe. Ask for Murine Eye Remedy Co., Chicago.

EASY TO DARKEN YOUR GRAY HAIR

You Can Bring Back Color and Lustre with Sage Tea and Sulphur.

When you darken your hair with Sage Tea and Sulphur, no one can tell, because it's done so naturally, so evenly. Preparing this mixture, though, at home is messy and troublesome. At little cost you can buy at any drug store the ready-to-use preparation, improved by the addition of other ingredients called "Wyeth's Sage and Sulphur Compound." You just dampen a sponge or soft brush with it and draw this through your hair, taking one small strand at a time. By morning all gray hair disappears, and, after another application or two, your hair becomes beautifully darkened, glossy and luxuriant. Gray, faded hair, though no disgrace, is a sign of old age, and as we all desire a youthful and attractive appearance, get busy at once with Wyeth's Sage and Sulphur Compound and look years younger. This ready-to-use preparation is a delightful toilet requisite and not a medicine. It is not intended for the cure, mitigation or prevention of disease.—Adv.

Watch Cuticura Improve Your Skin. On rising and retiring gently smear the face with Cuticura Ointment. Wash off Ointment in five minutes with Cuticura Soap and hot water. It is wonderful sometimes what Cuticura will do for poor complexions, dandruff, itching and red rough hands.—Adv.

TYPHOID is no more necessary than 5mLipox. Army experience has demonstrated the almost infallible efficacy, and harmlessness, of Antityphoid Vaccination. No vaccinated NOW by your physician, you and your family. It is more vital than house insurance. Ask your physician, druggist, or send for "Have you had Typhoid?" telling of Typhoid Vaccine, results from us, and danger from Typhoid Cases, THE CUTICURA LABORATORY, BERKELEY, CAL. PATENTED VACCINE A SERVICE UNDER U. S. PAT. 1,000,000