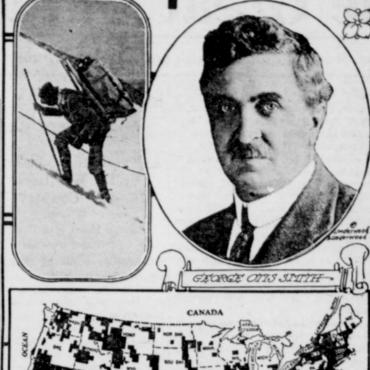
LINCE Sam: Mapmaker Sunday School





ontinuously active for more than a century and in its crater is Halemaumau-Lake of Everlasting Fire-Temple Act Provides where dwells Pele, Hawaiian Goddess of Fire. And the next year this Birds-For Completion of eye-probably to get cooled off-surveyed and mapped the top of Mount Topographical Survey Rainler, in Mount Rainler National park, which is one huge ice-cap with a snowbank for a summit, 14,408 feet Within 20 Years up in the air. But he doesn't confine himself to mountains. Two years ago By JOHN DICKINSON SHERMAN he led an expedition by boat through I'S suppose you are an the Grand canyon of the Colorado. Oh. able-bodied young Ameri- yes; they lost a boat or two, had

can of the male sex who gorgeous adventures and narrow eswouldn't object to a vaca- capes; altogether it was a most satis-

tion next summer with all factory map making. your expenses paid and So, you see, Uncle Sam's map wages thrown in for good makers actually get paid for having measure. That being the more fun than anybody. Neverthecase, you should get in less, it's a poor question that hasn't touch with Uncle Sam at two sides and-

Washington, D. C. Uncle In reality this topographical survey Sam, doubtless, will insist of the United States is a tremendousupon calling this vacation ly big and important job. It's so big a job at map making with the geologi- that after nearly fifty years of work cal survey. But don't let the dear old it isn't half finished. It's so important that the Sixty-eighth congress yielded Why, you'll go away off to some to a popular demand and agreed to wild bit of country and cook at a appropriate the necessary funds to fincampfire and eat bacon and beans and ish the job in twenty years. And flapjacks off tin plates and sleep in a here's the why and wherefore of it:

and hunt and climb mountains. Or "under direction of the secretary of surveys. The farmer, for example, maybe, instead of climbing mountains. the interior with the classification of can tell whether a drainage ditch is you'll go deep into some great forest the public lands and the examination where it's cool and dark and silent of the geologic structure, mineral reand the giant trees meet overhead, sources and mineral products of the with just a glimpse of the blue of the national domain. In conformity with lar campaign for the completion of the sky. Maybe you'll travel by dog-sled this authorization the geological sur- survey, with the result that the Temover snow. Maybe you'll paddle down vey has been engaged in making a a swift stream between canyon walls. geologic map of the United States and And maybe, if you stick long enough, Alaska, involving both topographic! you'll do all of these things-and more and geologic surveys

geological survey. He is a geologist ple, only 425 engineers and their as-And the surveyors don't make maps in rainy weather; they can't. And of note and a man of affairs. He was sistants were making maps; they covborn in Maine in 1871. He is a colered 12,311 square miles of territory. rainy days are when the fish bite best. And when the woods are wet is just lege man, has the right to wear the Only about \$15,000,000 have been the time to stalk deer. Why, I knew Phi Beta Kappa key that denotes spent in 46 years. Under the Temple one surveying camp that had the most scholarship and can write after his act congress is expected to appropriname: A. B., A. M., Ph. D., Sc. D. ate frim \$1,500,000 to \$2,000,000 a year. remarkable adventure with a grizzlybut that's another story and too long and LL. D. He is a member of many Moreover there is a provision by scientific societies and the author of which states and municipalities may to tell here. Health, strength, an apgovernment reports, of papers and ad- co-operate to speed up the work; such petite that would "put a soul under the ribs of Death," dreamless sleep, addresses and of a book or two. He has outside contributions this year total venture, the joy of "seeing what's be- been director since 1907, with the ex- about \$400,000. About \$50,000,000 will youd the next ridge"-why, if these ception of 1922-23, when he was a be needed to complete the survey. aren't vacation joys, what are they? | member of the United States coal And between you and me these commission.

The geological survey has several The gross area of continental United topographers of Uncle Sam believe in taking things as easy as they can and divisions and branches, among which States is 3.026,789 square miles; do their job right. George Washing is the topographic branch, of which Alaska contains 586,400 square miles. ton, when he was surveying for Lord Col. C. H. Birdseye is chief topo- About 45 per cent has been mapped-Fairfax in Virginia, used to work graphical engineer. He was born in see map reproduced by courtesy of straight across country, taking things New York state in 1878. He is a col- the Scientific American Magazine-of as they came. But the topographic lege man. After post-graduate work which about 15 per cent will have to engineers of these latter days can put and service as university instructor he be remapped because of the use of too it all over George Washington-as a did several years of field work. He has small a scale. The standard maps are surveyor. You see, they have new- been with the survey since 1909, ex- on the scale of one mile to one inchfangled instruments and methods. So cept during his World war service, one inch on paper to 62,500 inches of

-if there is one-and map the sur-The importance of the completion the quadrangles were put in place, of the topographic survey lies in the would cover about one acre. are so fond of this sort of map making standard topographic map is the only

a "quadrangle" of ground. The edges of each map join on with exactness to those of adjoining quadrangles. And Uncle Sam sells these incomparable quadrangles at 10 cents each retail and 6 cents wholesale!

GULF OF MEXICO

BLACK AREAS ALREADY SURVEYED

This topographic map, which at first glance of the uninitiated appears to be a map obscured by a mass of irregular reddish-brown lines, is of tremendous value to the country. For this is an age of construction-irrigation, drainage, waterpower, roads, tent and bathe in a stream and fish The geological survey is charged do away with the necessity of special etc., etc. And the topographic maps cil, representing practically all of the engineers of the country, led a popuple act became law.

Though this topographic survey has been in progress since 1879, congressional appropriations have been woe-George Otis Smith is director of the fully inadequate. In 1921, for exam-

Director Smith and Colonel Birdseve have a big job ahead of them. they just climb the nearest mountain and took his present position in 1919. country. The completed map, if all

Why, these topographical engineers fact that the geological survey's Uncle Sam must have had a sort of "prophetic hunch" when he picked out that Uncle Sam picked out as their accurate map. Moreover, it is in ef. Colonel Birdseye. Why? Because in boss a man of the name of Birdseye, fect an exact model in miniature of the past forty-six years the topo-And he's made good on his name too, the country it represents. It contains graphic engineers have walked about I haven't any idea of his mountain all that does the ordinary map; in ad- 10,000,000 miles-which would be record, but I do know that as far back dition it shows every physical feature more than 400 times around the earth. as 1912 he explored and mapped the represented to exact scale and every But the topographic engineer of the crater of Kilauea in Hawaii National altitude is indicated by the contour future will likely do much of his mappark. This great volcano has been lines. These maps are published in ping by photography from airplane!

# Lesson '

By REV. P. B. FITZWATER, D.D., Dean of the Evening School, Moody Bible In-stitute of Chicago.) (©, 1926, Western Newspaper Union.)

### Lesson for November 1

THE FIGHT AGAINST STRONG DRINK

(Temperance Lesson) LESSON TEXT—Eph. 6:10-20.
GOLDEN TEXT—"Be strong in the Lord, and in the power of his might."— PRIMARY TOPIC-Loving and Obey-

ng Our Parents.

JUNIOR TOPIC—How to Be Strong
INTERMEDIATE AND SENIOR TOP-IC-Strong Armor for a Hard Fight.
YOUNG PEOPLE AND ADULT TOP-IC-The Fight Against Strong Drink.

This is not a temperance lesson in the usual sense that it deals with intoxicants, but in the sense that it has to do with the believer's walk in conflict with the devil. Perhaps there has been no time when the evil one has made such a terrific fight as he is how doing in his attempt to nullify the Eighteenth amendment. The Christian has been saved by grace. Though his redemption is free, between its beginning and consummation there is a real, severe and protracted conflict. This conflict is most difficult and dangerous because it is not with flesh and blood, but with principalities, powers and spiritual hosts of wickedness in high places. Though the conflict is severe and painful, we should bravely battle on because the issue is sure if we go forth in the panoply of God.

I. The Source of the Believer's Strength (v. 10).

It is in the Lord. Only as the branch is united to the vine, or as a limb is united to the body, is there strength of life. We dare not attempt this conflict in human strength and

II. The Enemy (vv. 11-12).

The enemy is the devil, a personal malicious being, with his many subordinates. His personality is proven ty the names given him, and actions predicated of him. He has an exalted osition, and is mighty in power, and all unsaved men are under his power. He is the original sinner, and is extremely cunning. He has power over death; enters into men; blinds their eyes; lays snares for them, and sifts God's servants. In carrying on his work, he has his churches and ministers. However, he is resting under a curse. The death blow was given on the cross, and he will receive his doom in the lake of fire.

III. The Christian's Armor (vv. 13-17).

This means that his weapons of offensive and defensive warfare are not of man's devices. Just as his strength is from the Lord, so is his armor. The believer dare not act merely on the defensive. He must attack his spiritual enemies as well as resist their spiritual attack.

1. A Girdle of Truth (v. 14). The truth of God, sincerely and honestly embraced, alone will avail in this conflict. Reason, tradition, speculation and dead orthodoxy will fail in the crucial hour.

2. The Breastplate of Christ's Righteousness (v. 14).

As the metal plate covered the vital organs of the warrior, so the righteousness of Christ protects us from the enemy's assault

3. Feet Shed With the Preparation of the Gospel of Peace (v. 15).

This suggests the firm foothold of the soldier and his alacrity-readiness to proclaim the message of peace. 4. Shield of Faith (v. 16).

By this he is able to quench all the flery darts of the wicked. Christ is the object of that faith.

5. The Helmet of Salvation (v. 17). Consciousness of salvation enables a man, knowing that he is a child of God, and fellow-citizen with the saints, to lift up his head with confidence and to vigorously assault the enemy.

6. The Sword of the Spirit (v. 17). This is the Word of God, the Christian's offensive weapon; with it he can most effectively put his enemy to flight. This Christ used in the temptations in the wilderness, Matt. 4:4, 7, 10, 11. The church of Christ has won all her triumphs by the Word of God. Where she goes on using this, she goes on conquering, but when she falls back upon reason, culture, traditions, science, or the commandments of men, she goes down in defeat before the adversary.

IV. The Way to Get Strength to Use the Armor, and Courage to Face the Foe (vv. 18-20).

This is by prayer-and prayer alone. 1. Every Variety and Method of Prayer Should Be Employed (v. 18). 2. He Prays for His Comrades, "All the Saints" (v. 18). He sees all the believers standing

shoulder to shoulder against the 3. He Is Persistent (v. 18).

Some Things to Beware Of

Beware of idle moments! Beware of the beginnings of evil! Above all, and more than all, beware lest you once admit the fatal intrusion of evil thoughts. In solemn and awful earnest I would say to you, "Watch and pray lest ye enter into temptation."--

Eloquence

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cially prepared for Infants in arms and Children all ages.

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#### Like "Tinned Willie"

Canned salmon has become a popubeing imported in some recent months. year is valued at nearly \$100,000.

A golden plover on the Pacific coast Hawaiian islands.

#### Cast-Off Clothing to Turkey

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Kept His Word "Before Bill was married he said he'd be boss in his own house or know

the reason why." "And now he's married?" "He knows the reason why."

Good!

Teacher-"Why is this called 'free verse'." Bright Boy-"Because it isn't worth anything."

#### Vast Salt Beds

A bed of salt averaging 500 feet in thickness is said to be under the surface soil of 40,000 square miles of Texas and is believed to extend fa: into New Mexico, Oklahoma and

A Nice Distinction "I am speaking the truth, not facts." said a witness in an English court .-



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rounding country from its top.

gentleman kid you.

Stewart Edward White's lion huntarchery, but fashions in such things where it started. are capricious. They come and go with | Interest in archery, since it ceased no more apparent reason than in the to have practical importance, has alcase of the craze for cross-word puz-zles. There was a notable revival of and antiquarian cast. Sir Walter archery half a century or so ago, of Scott did much to revive it with his which a pleasant souvenir is found in romances of chivalry and in particular the works of Frank Stockton. His ac- with his exaggerated account of the with 120 traceable rooms was discorcount of "Our Archery Club" tells exploits of Robin Hood in "Ivanhoe." ered in ruins near Globe, Ariz.

Archery Revival Possible | amusingly how the craze hit one Amerpublican.

It seems to have struck this couning may possibly revive interest in try even harder than it did England,

Self-Supporting Students

In the University of Nebraska last year 76 per cent of the men students and 38 per cent of the women were wholly or partially self-supporting, and records show that the average expenditure for the nine months of school was \$714 for the men and \$729 for the women .- Ohio State Journal.

A prehistoric "apartment house"