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**Questions**

**BIOCHEMISTRY**—What are five trace elements necessary for health? p. 86.

**CHEMISTRY**—How could nuclear reactors be used to produce old fuels from new fuels? p. 84.

**NATURAL RESOURCES**—How much does it cost the National Park Service each year to pick up park guests' litter? p. 90.

**PHYSICS**—What is meant by "invariance of time reversal"? p. 83.

Photographs: Cover, National Park Service; p. 83, General Electric Company; p. 85, Sperry Gyroscope Company; p. 87, Firestone Tire and Rubber Company; p. 96, Whamo Manufacturing Company.

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**BIOLOGY****Tortoise Regenerates Bone During Hibernation**

► **HIBERNATING**, with its lowered body temperature, oxygen and food levels, has had unusual curing powers for a tortoise, it is reported in *Nature* (Jan. 25).

Timothy J. Hunt, Zoological Society of London, says that an adult female tortoise completely regenerated a missing part of her lower jaw during a 23-week hibernation period. Most scientists, he reports, had thought epimorphic regeneration, or regeneration by extensive cell multiplication, required increased body temperature.

The pre-tissue regeneration stage took three-fourths of the hibernation time, approximately the same time amphibians need for epimorphic regeneration.

The tortoise, *Testudo graeca graeca* L., had had the diseased condition for more than one year and was unable to chew normally before regeneration took place.

Science News Letter, February 8, 1958

**Do You Know?**

The total world catch of *fish* continues to increase and is now approaching 30,000,000 metric tons a year.

An amplifier, which may enable man to "hear" the *radiation* from hydrogen clouds in galaxies beyond the range of any present instruments, has been operated in a laboratory test.

In a laboratory's *anechoic chamber*, or "quiet room," all stray electronic signals are eliminated, thereby simulating conditions 300 miles in space and the problems which might be encountered in the transmission of space messages.

The United States planted a billion forest *trees* in 1957, a new record.

*Paintings* found in city of Antigua, Guatemala, that was destroyed by earthquake in 1773, are now being restored.