

1971

## Underwater Trails

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“1. The basic aims of experiments involving animals are to achieve an understanding of life processes and to further man’s knowledge. The development of the scientific method can be enhanced, when teachers and science fair judges insist that experiments involving animals have clearly defined objectives, requiring the use of animals to demonstrate a biological principle or answer scientific propositions. Such experiments *must* be conducted with a respect for life and an appreciation of humane considerations that must be afforded all animals.

2. Protista and other invertebrates are preferable for most experiments involving animals. Their wide variety and the feasibility of using larger numbers than is usually possible with vertebrates makes them especially suitable.

3. To provide for humane treatment of animals, a qualified adult supervisor, who has had training in the proper care of laboratory animals, must assume primary responsibility for the conditions of any experiment that involves living vertebrates. If the school faculty includes no one with training in the proper care of laboratory animals, the services of such a person on a consulting basis *must* be obtained.

4. No experiment may be undertaken that involves anesthetic drugs, organisms pathogenic for man or other vertebrates, ionizing radiation, carcinogens, or surgical procedures other than veni-puncture or hypodermic injection, unless these procedures are performed under the immediate supervision of a biomedical scientist experienced in the field under investigation.

5. The comfort of the animal used in any experiment shall be a prime concern. No experiment using live animals shall be attempted unless the animals shall have been obtained from a reliable source and the following conditions can be assured: appropriate, comfortable quarters; adequate food and water; humane treatment and gentle handling. Proper quarters and care must be provided at all times, including week-ends and vacation periods. An experiment in nutritional deficiency may proceed only to the point where signs of the deficiency appear. Appropriate measures shall then be taken to correct the deficiency, if such action is feasible, or the animal(s) shall be killed by a humane method.”

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### **A Xenon Strobe Light for Only \$17.50**

Available in kit form from Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas 78216, this variable rate xenon strobe light has proved to be the bargain of the year for physics teachers. All parts are furnished. Assembly time by a student was about three hours. Extra strobe lamps may be obtained from the same company for \$3.50.

### **Underwater Trails**

The National Park Service maintains underwater interpretive trails complete with route markings and information signs, for snorkelers and scuba-equipped swimmers. They are in the Virgin Islands National Park, St. John, V.I., Buck Island Reef National Monument, St. Croix, V.I., and at Fort Jefferson National Monument, just west of the Florida keys.