

Science Olympiad 2017-2018 Try-Out Material

Physical Science: Optics and Potions and Poisons

Optics Study Guide

You will see a few questions on the following concepts:

1. Law of reflection: specular, diffuse
2. Refraction: index of refraction
3. Prism: deviation, dispersion

Use the following sites to help prepare for the questions:

1. <http://optics.creol.ucf.edu/sos.html>
2. Wikipedia – search for topics

Potions and Poisons Study Guide

You will see a few questions on the following concepts:

1. Ionic and covalent bonds
 - a. <http://hyperphysics.phy-astr.gsu.edu/hbase/Chemical/bond.html>
2. Differences between mixtures, solutions, and compounds
 - a. http://www.ducksters.com/science/chemistry/chemical_mixtures.php
3. Balancing a simple chemical equation
 - a. <http://www.wikihow.com/Balance-Chemical-Equations>

Life Science: Herpetology and Anatomy/Physiology

Herpetology Study Guide

To prepare for Herpetology, you will create a mini-field guide of 4 different snake species. You will be asked to identify which snake is shown in an image and answer questions about the snake such as: taxonomy (class, order, family, genus), anatomy/physiology of species, reproductive strategies, ecology, diet, habitat characteristics, behavior, and conservation status.

The four snakes you will need to know are:

1. Genus: Ramphotyphlops – Common Name: brahminy blind snake
2. Genus: Charina – Common Name: rubber boa
3. Genus: Nerodia – Common Name: water snakes
4. Genus: Crotalus – Common Name: rattlesnakes

Anatomy/Physiology Study Guide

You will see a few questions on the Digestive System Only:

Teachers Guide For Optics Elementary Science Study

Robert V. Lange



Teachers Guide For Optics Elementary Science Study:

Optics Robert V. Lange,1971 This teacher s guide suggests activities that provide opportunities for upper elementary students to explore by direct experiment many of the properties of light Equipment is listed and construction of a light source is detailed Instructions are given for setting up a classroom with electrical equipment Activities are described in units dealing with mirrors colored light and refraction CS **Teacher's Guide for Optics** Elementary Science Study (Education

Development Center),1985 **Optics** Robert V. Lange,Elementary Science Study (Education Development Center),1968

Resources in Education ,2000-04 **Optics** Ajoy Chatak,1971 **Resources in Education** ,1996 **Research in Education** ,1974 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1973 **National Union Catalog** ,1973 Includes entries for maps and atlases **Canadiana** ,1974

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