

## **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](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:

# Science Olympiad Tryout Study Guide

**Michal Rosen-Zvi**



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## **Table of Contents Science Olympiad Tryout Study Guide**

1. Understanding the eBook Science Olympiad Tryout Study Guide
  - The Rise of Digital Reading Science Olympiad Tryout Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Science Olympiad Tryout Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Science Olympiad Tryout Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Science Olympiad Tryout Study Guide

- Personalized Recommendations
- Science Olympiad Tryout Study Guide User Reviews and Ratings
- Science Olympiad Tryout Study Guide and Bestseller Lists
- 5. Accessing Science Olympiad Tryout Study Guide Free and Paid eBooks
  - Science Olympiad Tryout Study Guide Public Domain eBooks
  - Science Olympiad Tryout Study Guide eBook Subscription Services
  - Science Olympiad Tryout Study Guide Budget-Friendly Options
- 6. Navigating Science Olympiad Tryout Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Science Olympiad Tryout Study Guide Compatibility with Devices
  - Science Olympiad Tryout Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Science Olympiad Tryout Study Guide
  - Highlighting and Note-Taking Science Olympiad Tryout Study Guide
  - Interactive Elements Science Olympiad Tryout Study Guide
- 8. Staying Engaged with Science Olympiad Tryout Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Science Olympiad Tryout Study Guide
- 9. Balancing eBooks and Physical Books Science Olympiad Tryout Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Science Olympiad Tryout Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Science Olympiad Tryout Study Guide
  - Setting Reading Goals Science Olympiad Tryout Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Science Olympiad Tryout Study Guide

- Fact-Checking eBook Content of Science Olympiad Tryout Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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