

## 2020 EVENT SUPERVISOR GUIDE – ORNITHOLOGY (B/C)

### **EVENT INFORMATION**

**DESCRIPTION** – Ornithology will test knowledge of North American Birds.

#### **RULES –**

- Rules are available from your Tournament Director.
- **2020** should appear at the bottom by the page number.
- BE SURE TO CHECK THE RULES for Event Parameters and suggested topics.
- The Science Olympiad National Bird List is available under event information on the National Science Olympiad website at [www.soinc.org](http://www.soinc.org). States may have a modified list – see state website.
- Rules clarifications are also available at [www.soinc.org](http://www.soinc.org) under event information.

**ROTATION** – ORNITHOLOGY is in for 2 years of an 8 year rotation- other events in 2 yr. taxonomy rotation are Trees, Entomology, and Herpetology.

**FORMAT** – Ornithology can be run as timed stations with at least enough stations to accommodate the number of teams competing per session or it may be run as a power point competition with timed PowerPoint slides.

### **EVENT NEEDS**

**ROOM TYPE** – a room with table for stations or a room with a projector for PowerPoint version.

**HELPERS** – 2 or 3 helpers are needed to time stations, rotate students and proctor

**EQUIPMENT** – specimens or photos, bird calls, or computer and projector for PowerPoint.

**TIME NEEDED FOR SETUP** – Be sure you have at least an hour before your competition with no event in your room so you can set up the stations.

### **PREPARATION FOR COMPETITION**

**TIME-LINE FOR PLANNING - You will need to know the number of teams competing.**

Teams consist of two students so plan accordingly. Be sure you have enough time to prepare the questions, answer keys, answer sheets, and assemble needed equipment

**ORGANIZING CONTENT** – See page 3 for specific tips on developing questions for Ornithology

#### **WRITING QUESTIONS –**

- The philosophy of Science Olympiad is that the competition be inquiry- based to emphasize process skills and mental challenges using suggested content.
- Care should be taken to design the each station to require about the same amount of time.
- If there are a large number of teams per session, consider using 2 complete station setups.
- Balance the station content so that it reflects the content described in the rules.
- Students are expecting to see all of the topics listed in the rules to be reflected in the competition.
- Develop questions which are easy to grade.
- Develop appropriate questions so that **all** ties can be broken.
- Be sure that all teams experience the same testing conditions.

**VARIING DIFFICULTY FOR SUCCESS OF MANY -** To allow most students to be successful, it may be a good idea to vary the difficulty of questions at each station!

**ANSWER SHEET ORGANIZATION** – Set up the answer sheet so it is easy for students to use and easy for your team to grade. Include team name, team number, student names, as well as a place to record raw score, rank, and points. Be sure you have enough answer sheets for each team. It may be a good idea to put team names and numbers on the answer sheets ahead of time.

#### **ANSWER KEY AND SCORING RUBRICS**

- Questions will be assigned point values.
- Students will be ranked from highest to lowest score.
- Ties will be broken by pre-determined tie-breaker questions.
- Have extra answer keys so your helpers can help you grade the competition.
- Be sure each section is grade by the same person.

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### *RUNNING THE EVENT*

#### **SET UP TIPS for Station Competition.**

**Items needed:** test questions, specimens for each station, answer sheets, answer key, stop watches, extra pencils, tape

- It may help to have questions laminated or put in sheet protectors. This procedure eliminates damage or tampering during competition.
- Be certain that equipment and questions are placed at the station for easy access of the students.
- Taping questions to the table helps to keep stations organized and undisturbed.
- Using arrow may help students move from station to station.
- Bring extra items needed at stations as rulers. If one is needed, put three there.

#### **CHECK IN TIPS – if possible allow all teams to compete even if one or both members are late.**

**They may need to miss some stations but they can do part of the competition.**

- Check each team member for wrist bands or approved ID before giving teams their answer sheet. Have extra pencils and direct students print their names on sheet.
- Direct student to turn off all non-permitted electronic devices. You may wish to have them put in a designated spot, given to someone outside the room, or placed in the student backpacks and stored at a designated spot in the room.
- Allow each team to have only what is permitted in the Event Parameters.
- Keep students away from the stations until you are ready to begin the competition.
- Give all directions and safety information to all teams before beginning.
- Explain the station setup scheme and rotation pattern to the students.

**ROTATION OF STUDENTS FOR STATIONS** – Using arrows taped to the table helps students. Proctors can also be stations around the room to help with rotation.

**TIMING** – stop watches or timers are best for timing the stations. Have a person responsible for timing the event.

**PROCTORING** – Two or three people is adequate to help with rotation, check equipment at stations, and proctor the competition. You may want proctors to check microscopes, balances, and probes as the students rotate. If you train them during the first session, you can grade papers during successive sessions.

#### **DEALING WITH PROBLEM SITUATIONS – have the cell phone numbers of officials**

- DISQUALIFICATIONS OF A TEAM SHOULD BE RESTRICTED TO SAFETY ISSUES, CHEATING, OR ABUSIVE AND UNSPORTSMAN-LIKE BEHAVIOR.
- Be sure that tournament officials and coaches are notified of any disciplinary action.

#### **CHECK OUT TIPS**

- Be sure to get an answer sheet from each team before you allow them to leave the competition.
- Be sure the team number, team names and member names are present and legible.
- Remind students to take all their backpacks and other possessions as cell phones.

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### **SCORING THE EVENT – DO NOT GIVE OUT RESULTS ANY TEAM OR COACH.**

**CONSISTANCY IN GRADING** – have the same person grade the same section for all teams.

**CHECKING MATH AND RANKING** – Be sure to check the math and ranking for all teams so they are accurate. Scoring worksheets or computer programs may be available to help with ranking.

**BREAKING TIES** – Break all ties and indicate on the student answer sheets and score sheet how the tie was broken. The **DECIMAL METHOD** is a good way to indicate the winner of ties.

Example: If two teams have the raw score tie of 83 for, the winner of the tie gets 83.1 while the other teams gets 83.0. If several ties are broken, you have .1 to .9 to use. This also points out scores where ties were broken.

**SCORE SHEET** – Fill in all information on the score sheet. Indicate how the raw scores are ranked – high score, low score or some other method. Be sure to include raw score, rank and points for each team. Explain how ties are broken.

### **SCORE COUNSELING**

- Have your score sheet completed and signed before going to score counseling
- Arrange student score sheets in rank order for quick checking.
- Turn in answer sheets, a copy of the test and an answer sheet to the Score Counselor

### **Tips for Ornithology Questions:**

- The **Official National Bird List** can be found on the Science Olympiad National website. [www.soinc.org](http://www.soinc.org) under Event Information.
- States may vary the list so check with your tournament director or the State SO website.
- All specimens, with current taxonomy, on the National List are represented in the **Peterson Field Guide to Birds of North America, Houghton Mifflin, 2008.**
- The event could include live and preserved specimens, skeletal material, recordings of songs, and slides or pictures of specimens.
- Timed stations will be used for the competition.
- Specimens/pictures will be lettered or numbered at each station
- Each specimen will have one or more questions accompanying it on some aspect of its life history, distribution, etc.
- No more than 50% of the competition will require giving common or scientific names (class, order, genus as indicated on the official national list).
- Basic identification is to the level as indicated on the Official List
- Knowledge of anatomy and physiology, reproduction, habitat characteristics, ecology, diet, behavior, conservation and biogeography may be tested.
- Stations dealing with bird taxonomic sequence, bird adaptations, characteristics of specific orders or families may be used.
- Fill in or multiple choice questions are easy to grade.
- Free response questions can be used and should have a rubric for grading.

I hope these suggestions are helpful in organizing your tournament. Comments or new ideas are always welcome. Please send them to me at the following address.

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