

# Life Science Competition



**Purpose:** *To encourage young minds to increase their scientific problem solving skills. Much of the technology that comes about today came from observation.*

Scientific Field of Research in Life Science Competition:

Biochemistry	Ecology
Botany	Environmental Science
Biophysics	Medicine
Physiology	Zoology

\* Do not bring any animals to the Science & Tech Fair.

## **Basic Components of All Entries:**

1. A 3-ring binder style **notebook** should be submitted with each Life Science competition. The notebook should include a full length research paper with the following components.
  - Title Page
  - Table of Contents
  - Introduction (states the problem and proposed hypothesis)
  - A thorough procedures section explaining what you did (include a list of materials used)
  - Data collection notes and results section
  - A separate conclusion that summarizes your results
  - A reference and credit section in which you list your sources and give credit to anyone who helped you (including any company, organization or agency that assisted you.)

### **2. The Exhibit Display/Project Board**

You will only be allowed a 3ft x 3ft area for your display, not to exceed a standard six-foot table. Keep in mind that most people, including the judges, will spend only a short amount of time looking at each presentation. Try to create a display that gets as much information across as quickly as possible with the least amount of words. Use graphs, charts, or tables to illustrate data. Include a conclusion that summarizes your results.

Discuss with your teacher any exhibit requirements such as special equipment, electrical outlets and wiring needs. No flames, gases or harmful chemicals are allowed.

Use of technology is encouraged.

**Note:** 1. All projects must be picked up by 4:00 p.m. on May 6<sup>th</sup>. Any projects left after this time will be disposed of.

2. The Life Science competition can consist of a single participant or a team of two participants.

3. In the event of a tie between a single participant and a team of two participants, the winner will be the team.



### Exhibit Display/Project Board:

Criteria	Possible Points	Points
Problem or question is clearly stated	3	
Testable hypotheses stated	3	
Experimental procedure clearly outlined	3	
Independent variable identified	3	
Dependent variable identified	3	
Control of variables demonstrated	3	
Adequate replication demonstrated	3	
Data collected and organized in charts and graphs	3	
Charts or graphs appropriately set up and labeled	3	
Conclusion drawn is valid and based on data collected	3	
Display is neat and well organized	3	
<b>Project Exhibit/ Display Board Subtotal</b>		

### Interview:

Criteria	Possible Points	Points
Presented information in a logical order (problem, hypothesis, procedure, results and conclusion)	6	
Reported rather than read information	2	
Presented accurate science information	2	
Responded adequately to questions	2	
<b>Interview Subtotal</b>		

### Score Tabulation:

	Points
<b>Project</b> (Maximum points-15)	
<b>Research Paper</b> (Maximum points-40)	
<b>Exhibit Display/Project Board</b> (Maximum points-33)	
<b>Interview</b> (Maximum points-12)	
<b>Grand Total</b> (Maximum points-100)	