SCIENCE FAIR 2019-20

The Landrum Middle School Science Fair is affiliated with:

The St. Johns County Science Fair

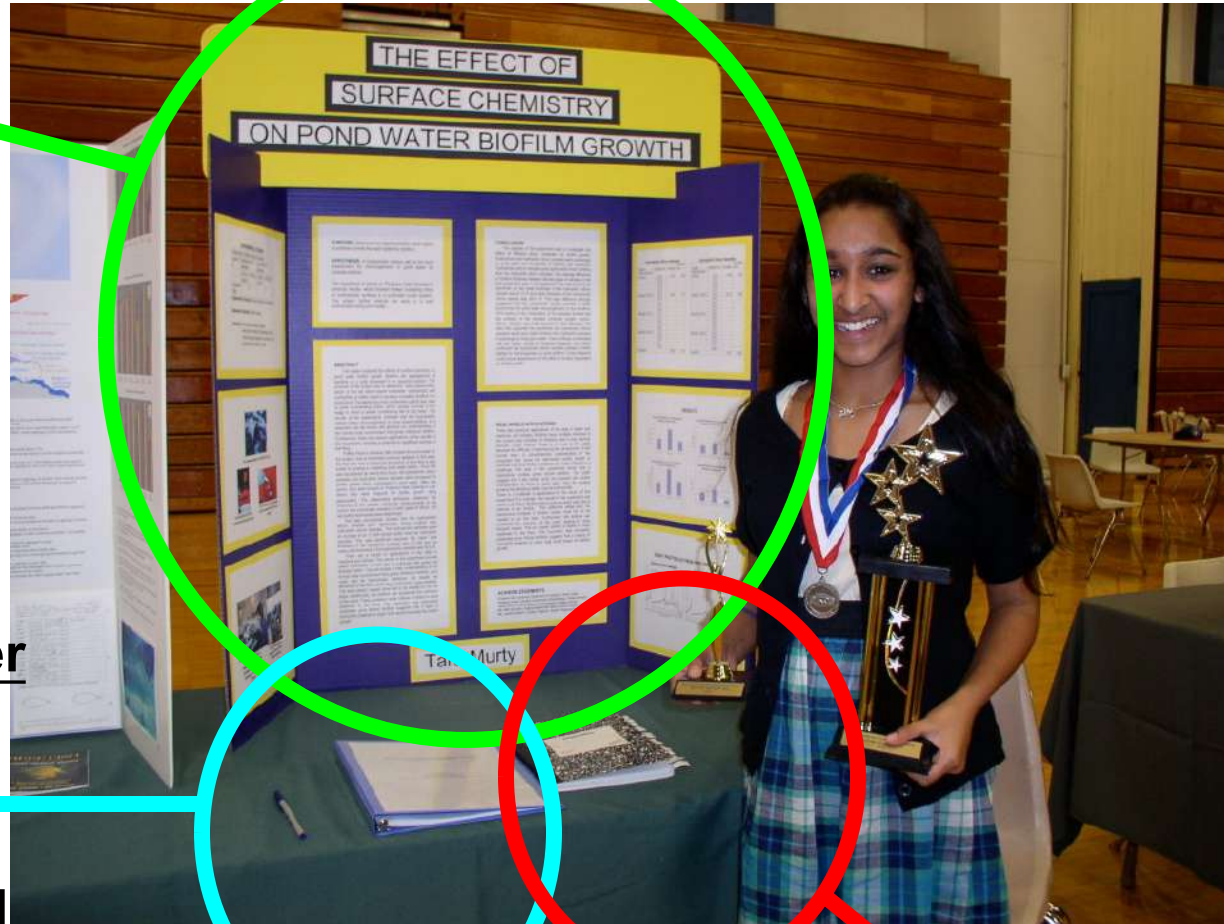**Florida State Science and Engineering Fair (SSEF)**

Intel International Science and Engineering Fair (ISEF)

Parts of the Science Fair Project

Backboard – **Presents your entire experiment**

Project Binder **Contains paperwork, background research, and project report.**

Project Journal - **A diary of your project. A record of everything you did.**

THE EFFECT OF SURFACE CHEMISTRY ON POND WATER BIOFILM GROWTH

Project Journal

EVERY student needs to keep a project journal

EVERYTHING you do should be recorded in your project journal (not just your experimental data).

DATE every entry – extremely important!!!

Use non-erasable pen, not pencil.

Do **NOT** tear out pages, use white out, or scribble out mistakes.

- Draw ONE line (~~mistack~~) through any mistakes.

Your journal should document the process of selecting a topic, background research, rough drafts of your Research Plan, your data – **EVERYTHING!** -- **START MAKING ENTRIES TODAY**!

Mr. Anzelmo
Science Fair

Sample Entry

<u>**8/20/19**</u>

Attended first Science Fair Checkpoint meeting. Discussed project components and filled out Student Entry Form. Will need to visit science fair website: http://www.lms.stjohns.k12.fl.us/sciencefair/

My first topic idea deals with methods to reduce plastic consumption by using...

What are the Judges Looking For?

Projects that:

- **Are Meaningful**
- **Have real world applications**
- **Have a clear purpose**
- **Solve a real-world problem**
- **Address a issue in your community**
- **Are challenging**

Steer clear of "typical" or commonly-done projects with obvious outcomes (ScienceBuddies.com)

Models and demonstrations, while educational, are *not* Science Fair projects!

Where Do I Begin?

Topic selection is the hardest part!

Use imagination, thoughtfulness, independence, and diligence.

Pursue topics that interest you.

Use current events to inspire you.

Address questions of local or regional concern.

Try to answer an unanswered question, solve a problem, invent something, or improve something.

Can I Start Experimenting?

NO

You must first:

1) Conduct background research and create a bibliography

2) Create a detailed Research Plan

3) Complete all of the Official ISEF forms needed for your project and receive project approval

These tasks must be completed BEFORE any experimentation can begin!!!

Winning students can advance to the St. Johns County Science fair and the Florida State Fair, and potentially win monetary awards and college scholarships!

Student Name_____ ⟵ **EVERY** student fills out their own form!

Grade _____Science Teacher _____

Home/Parent phone #_____

How will you be getting home?_____ (meetings are 2:00-3:00 Tuesdays)

Parent email address_____ ⟵ **MUST** be parent email!

Team Member Name_____

Grade _____Science Teacher _____

What does your project involve? (Check any that apply)

want to do an experiment that involves humans.
want to do an experiment that involves vertebrate animals.
want to do an experiment that involves microorganisms.
want to do an experiment that involves chemicals, materials, or activities that might
onsidered hazardous or dangerous.

✓ I understand that a project involving any of the above mentioned conditions will
   probably require additional research and completion of a very detailed Research
✓ I understand that these projects can often involve complex paperwork that may
   help from parents
✓ **I understand these projects require prior approval from the IRC/SRB Re**
   Board _before_ experimentation can begin!!!

t Signature:_____

Signature: _____

y project will not involve any of the conditions mentioned above. ☺

(OVER)

What Next?

1. Fill out your Student Entry form and turn in either today or next Tuesday.

2. Get a Project Journal and start making entries.

3. Visit the Landrum Science Fair website and familiarize yourself with upcoming due dates

4. Start looking for sources of background information for your project, which is our topic next week!

What are the Judges Looking For?

Your project should:

Use quantifiable (measureable) variables.

Have <u>measurable</u> results (time, distance, capacity, temperature, frequency, changes in rates, scale rankings…...)

Product tests should be avoided unless you test the chemical or physical properties of specific ingredients.

* Your project must address <u>why</u> there may be a difference in the effectiveness between products based on chemical or physical properties.