**Measures are in place to conduct this program as fairly as possible.**

**It is a reality to expect a wide range of participants from many different backgrounds.**

**Recognition is based upon the overall performance as well as specific criteria.**

**The more you can detail personal involvement and overall understanding, the better.**

**Networking is encouraged! Assistance is allowed whether from family, friends, or professionals.**

***Participants are expected to be forthcoming and not to omit any assistance received.***

**Honesty, integrity and trustworthiness are exemplary.**

**It’s really that simple!**

**A professional looking exhibit or prototype is nice but not expected.**

**Spelling and grammar matter. Neatness matters. Content matters.**

**Overall, your understanding, enthusiasm and application of the invention process matters.**

##### **The Edison Fairs Regional Inventor’s Guide 4 – 12 Logbook**

|  |  |
| --- | --- |
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### **Young Inventor’s Code**

*I recognize the ‘Power of One’, the unlimited potential and influence one person can have. I pledge to myself, I will observe with interest, question with curiosity, research meaningfully, and apply myself with integrity at all times, with admiration for those who contributed before me, with respect for all who share the present, and with the desire to influence the future for the better.* Dr. Gary H. Nelson

##### **The Edison Fairs Regional Inventor’s Guide**

##### **4th-12th Grade Logbook**

Inventor’s Name

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

School Folder Code

|  |  |
| --- | --- |
| School | Teacher |
|  |  |

*Regional* Invention ID #

|  |  |  |
| --- | --- | --- |
| Division  (E, M, H) | Grade  K-12 | Regional Project # **to be assigned** |
| Example: M7- Regional Project # | | |
|  | | |

|  |
| --- |
| Invention Title |
|  |
| **General Field of Invention: Animal; Behavior; Astronomy; Biology, Chemistry; Computer; Energy; Engineering; Environment; Food; Health; Mathematics; Music; Physics; Plant; Sports; Travel; Other** |
|  |

Consult the **Edison Regional Inventors Fair *Educational Guide***

Details on logbook selection .

**INVENTION PROCESS**

**Chapter One**

**Identifying** & **Understanding**

**THE FIRST STEP: RECOGNIZING PROBLEMS**

To invent something worthwhile, one must first identify one or more problems that will have a beneficial impact. *A problem may affect the young or elderly.* *It may be at home, school, work, or play, within the community or on a global scale*. *It may be on land, in the air or about the water.* Here is a list of problems of importance that catch my attention along with my reasons each is important and worthy to pursue. Besides the potential profit, who or what will benefit most from solving each problem? Pay attention to what people want and need! Pay attention when things go wrong (*accidents, illness, disasters*)! Pay attention to population shifts (*demographics*)! What beneficial impact would you like to make!

**STEM (Science Fair)RESEARCH**

If an invention is the application of a personal STEM discovery and understanding, enter why this is important here! Details of the STEM research leading up to these findings can be shared as a reference at the end of the Guidebook and Logbook.

(Check out [www.oceancleanup.com](http://www.oceancleanup.com), a STEM invention by a high school student!)

**PROBLEM: WHY THIS IS IMPORTANT**

1.

2.

3.

(Add a page if you wish to include additional problems.)

I am interested in doing something about Problem # \_\_\_\_\_

*"As I see it, to be an inventor, creativity is key, but learning how to think and how to plan your actions is also important. Take the time to analyze situations and learn how to solve the problems you find along the way. Most important, do not let old ways of thinking blind you to new possibilities. New ways and new ideas have written many of the best success stories in history." "Good luck to all of the participants in the Inventors Program."*  William Clay Ford, Jr., Chairman of the Board, *Ford Motor Company*, Great Grandson of Henry Ford

**Ideating**

**SOLUTION(S)**

It is possible there is more than one solution.

|  |
| --- |
|  |
|  |
|  |

After careful consideration, I believe this is my best idea for a solution and I really think I can develop it into a great invention!

***Think Creative, Be Creative***

Even if you never acquire intellectual property, your creative thinking, critical thinking and problem solving skills can help raise your ingenuity and therefore, your satisfaction and success in any and all aspects of your life . . . *this day and every day*.

**Originality**

**INVENTION RESEARCH**

This section involves **Intellectual Property (IP)** **Research** seeking information on the uniqueness or originality of your invention. Performing a **patent search** is part of IP research. You should try performing a ***basic patent search*** to show you understand how it’s done. You are not expected to perform an ***in-depth patent search***

**An invention resulting from a Science Fair Project still requires proof of originality. An invention may exist coincidentally that provides the same function.**

**This could prevent making a claim of originality.**

**Science Fair CO Registered Students provide your STEM Summary/Abstract here.**

**Attach your lengthy detailed STEM research at the back of this logbook.**

***Learn to perform a patent search***: <http://www.uspto.gov/teens>

By clicking on PATENTS and then on PATENT SEARCH, a choice of search options appears. Basic and advanced; By Title; By Inventor; or ***Boolean Search* (k**ey words are used to describe and find similar inventions). This can be tricky, so think carefully about how to describe your invention with KEY WORDs. (Example: ‘fluid container’ key words: bottle, container, cup, glass, jar, vessel.)

***GOOGLE*** is a great alternative to the USPTO site. For fun and experience, search

[***patents.google.com***](http://www.patents.google.com)

*Are any similar products being sold now or possibly in the past?*

*Patent numbers can be found on the packages of patented products, too!*

*Make sure to check other places like in stores, catalogs, magazines, computer searches, etc.*

*Are you good at playing a computerized game or working on a puzzle!*

*It’s really just a new type of* ***Quest*** *or* ***Adventure*** *full of discoveries and dead ends!*

How many KEY WORDS can you come to describe what your invention is?

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |

Here is a list of the **patent numbers** of patents found:

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

"*Ideas are a person's greatest asset*" E. Joseph Cossman

**A New or Novel Idea**

Anyone filing a patent must provide one or more ***CLAIMS*** explaining why his or her invention is ***unique and better*** at solving a problem than anyone else has come up with to this day! Patent attorneys specialize in writing claims. ***A Claim is a statement about what specifically is original or unique about your invention.*** Claims can be found in any utility patent. It’s worth checking out a few before trying to create one!

For example: You have improved a way to better secure a roof shingle so it cannot blow off a roof. You did not invent the shingle or the roof nail. You invented the new way to attach it to the roof. Describe the attachment and how it functions to secure the existing shingle in one or more ways that distinguishes it from anything previously used.

|  |
| --- |
| **Claim:** What specifically is original or unique about my invention. |
| My first try at writing a Claim |
|  |
| Revised Claim  **As you develop your invention you may decide to return here to improve your claim!** |
|  |

Having performed this “invention research” adventure, I believe my idea to be new and original (a true *invention* or a unique *innovation.*)

***I’m ready to take the next steps!***

**Designing,** **Building**, **Testing** & **Iterating**

*Ideas Work For You Only When You Work On Them*! Robert Milnes Hayes

**THE CHALLENGE**

***An inventor must be willing to try at the risk of failing in order to find what works!***

Successful inventors learn what doesn’t work more times than what does work.

Whether the product happens to be based on one’s intellectual or physical abilities, every person who invents something eventually learns the value of good planning.

***Here is* *my personal* *journey* *developing my final idea into a real invention.***

All the details can be found in this guidebook and added pages. ***I will give a very clear account of my journey, what works and what doesn’t.*** I provide ***witnessed proof of my work and the dates I did the work!*** If I read special books or received help or ideas from anyone, I will record this information, too! ***I will include the names of everyone who helped me on my journey*** whether or not I used any of their suggestions to improve my invention!

**PICTURE THIS!**

**Invention/Prototype Illustration or Photos**

**Add pages to expand upon your illustration(s)**

Patents require detailed illustrations or drawings of what the invention (a product or a new method) looks like, including the different parts of the invention and how each part works in relationship to the whole invention. This is a drawing of my invention with special features labeled. I understand a computer graphic or hand drawn illustration is desirable. In addition, I can transfer a digital photo of my final model to an extension of this page to show how my illustration turned out.

Check one:

[ ] I performeddesigning, building, testing, iterating & illustrating myself

[ ] I had people assist me.

|  |
| --- |
| **Names of people assisting me & how they contributed:** |
|  |
|  |
|  |

**Designing,** **Building**, **Testing,** **Iterating & Illustrations**

“The only time you have to succeed is the last time you try.” Philip H. Knight, *NIKE* CEO recalls his College Professor

**page 1**

(Additional pages may be attached. Title each page with **“Designing page # 2,** 3, 4 . . . in sequential order)

**INVENTION IMPACT**

**Category Two**

**Marketability**

Market potential assesses the scope and likelihood of an invention gaining users. How large and/or viable is the potential market? To what extent was the market appropriately researched and scoped? Did you determine the best market to launch your product or service?

**Value Proposition**

List the distinguishing benefits of your product or service from the competition? Is it more durable and longer lasting? Does it perform more functions? Does it perform each function better? Is it easier to use with ergonomic design benefits? Does it meet and exceed expectations. Is it more cost effective? Can it be stored away better?

**Social Value**

Some inventions may address pressing social issues. The social impacts may not be easily quantifiable in a traditional economic sense but are nevertheless important to consider in the context of overall invention impact.

What are the potential *environmental, societal and other nontraditional impacts* of this invention? To what extent does the invention improve environmental/social conditions? Is it possible something could go wrong or have an adverse impact?

**Social Value** Page 1

**SAFETY**

***Personal safety and the safety of others***

Pay careful attention to safety rules at all times! If the invention requires using equipment or experimentation, make sure to have adult supervision, work under safe conditions with access to a fire extinguisher and eye protection. Here is my written description of what steps were taken to maintain safety at all times.

**Safety** Page 1

**LIABILITY**

**The Other Safety Issue**

Inventors must think about liability, the risk of being hurt or causing damage when using an invention – especially This PRODUCT! Here is what could go wrong if people are not careful using this product, storing it, or disposing of it properly. *Include any safety improvements made to the product as well as any cautions or safety directions that should accompany this product.*

**Liability**  Page 1

**INVENTION COMMUNICATIONS**

**Category Three**

**Prototype**

To be successful, the invention must meet or exceed expectations. It may take testing and refining of more than one prototype to get it right. Detailed drawings or computer-generated models may be used to demonstrate ‘proof of concept’ and save expenses. **This can appear in the Design & Build section or here.**

The same thing goes for demonstrating the invention, ***SAFETY comes first!*** Appropriate adult supervision is essential. No live animals shall be put at risk.

**BUILDING MY PROTOTYPE**

**It is a BIG RELIEF to know help with building the prototype is acceptable! I will record any help received in this Guidebook.**

Check one:

[ ] I did it myself.

[ ] Here is a list of who helped and how they helped with my prototype:

Virtual “Video” Competition performed at **HOME** will allow for a prototype or model to be of a size that would be larger than allowed for “On Site” competition.

Models that can not fit within **Exhibit Hall** entry’s space dimensions should be presented as photos or videos on a computer tablet, laptop or smart phone.

***REMINDER: Parents must give their permission at the end of this Guidebook*.**

*Can I use* ***3D printing? YES!*** *It is definitely worth knowing about this as an inventor. You are NOT expected to use this technology for the invention at this competition level but if possible, give it a try.*

What is the final prototype’s retail cost?

Here is a list of the materials, the retail cost of each, and the total cost. (*Add a sheet if necessary*.)

|  |  |  |
| --- | --- | --- |
| **Parts/Materials** | **The (Retail) Cost** | **Total Cost: $** |
|  |  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Expenses are on the rise. Brainstorm ways to keep expenses low.

Even professionals make prototypes out of cardboard, discarded items, modeling clay.

You are not expected to have finished, market ready product.

3D generated illustrations are very realistic, too.

**Regional Fair Display**

The standard size display is a 36” x 48” Corrugated Tri-Fold Display Board. The height may be 36” up to 72” tall, must be stable and not easily toppled over. Displays can be taller but not wider. Stability and safety is paramount. (Verify display size for other events.)

**Presentation**

**Helpful Tip** if you are shy or nervous about your presentation. **Use PROPs**. Use your invention prototype and display to draw attention away from you! **Redirect people’s attention from watching you to watching the display or demonstration of the prototype**. Demonstrate the ‘visuals’ why you tell your story.

**I am proud to share my invention in person and virtually.**

**VIRTUAL Presentations: 2-6 Minute Video Duration**

I understand I will need to make an ***unedited video***. Cue Cards can be used to help keep me on track to remind me to discuss important topics but I will not just read cue cards. I will speak in conversation style to the camera. I am inspired by my invention and I am excited to share it on the video! For the Regional Fair, the required video permission is as follows: ***YouTube video with permission to be viewed by anyone with the link****.*

**NAMING THIS INVENTION**

The name of the invention can be a *HUGE* factor in getting *ATTENTION*. **It is best to** **title this invention so the purpose or function can be easily recognized.** Creating a **BRAND** that further represents the business selling the product is icing on the cake! Your Brand tells the ‘business’ story and purpose. It differentiates your business from others and what it values. Think of Nike, META, or Amazon Brands!

For this competition, putting the emphasis on *purpose or function* will immediately reveal the benefits of my invention. If a special name is used that does not reflect purpose or function, it is very helpful to add the *purpose or function* along with it***.*** Why? Judges will be able to figure out what has been invented just by the title alone! The name says it all!

*Protecting a product’s name with a* ***TRADEMARK****or literature with a* ***COPYRIGHT*** can be very important and very profitable. Consider using for free a non-registered trademark (**™**) in just the right location. This symbol alerts everyone that this a unique product name not to be copied. A unique *service* can receive a ***SERVICEMARK*** (SM).

***In the past, a temporary copyright was an option but no longer.*** Only a registered copyright is acknowledged. A fee is required to register the trademark or copyright with the U.S. Trademark Office and Copyright Office in Washington, D.C. A ***Registered Trademark*** is represented by **®** following the product name. A **Registered Copyright** symbol is **©** followed by one’s name**.** A registered notification receives priority.

**Let’s Give Your Invention’s Name An Unregistered Trademark**

**Unique Invention Name**

**TM**

**REMINDER**

**Any invention project involving STEM research must meet all Rules and Regulations of the Thomas Alva Edison Kiwanis Regional Science & Engineering Fair**

**in addition to those of the Inventors Fair.**

**Summary Abstract**

A concise statement of less than150 words communicating what the invention is without getting into very specific or technical details. The general public should be able to understand the basic aspects of the invention and its function.

There’s a lot more information available in the

##### **Edison Fairs Educational Regional Inventor’s Guide**

Learn about the relationship of the sciences, invention, and entrepreneurism in the

**Edison Fairs Educational Regional Inventor’s Guide**

***Where you will find information on:***

* ***STE‘A’MIE Engen-uity*** – The Engine of Progress
* Understanding How to Use Any Logbook:

First to File verses First to Invent

* Creating a Personalized Logbook
* Blue Print for Building Your House of Invention
* GEMS from the Inventors School of Hard Knocks
* **Special Articles for the Entrepreneurs Amongst You:**

*Business Planning; Manufacturing Costs; Licensing, Rules of Engagement, Sales Sheet, Termination of Contract*

* Sample Judging Score Sheet

**All students are required to have this page attached at the back of their Guidebook.**

**Your teacher and a parent/guardian are required to sign this form**

##### 

MY PLEDGE TO CONDUCT MYSELF ACCORDING TO THE FOLLOWING:

**I pledge**, for safety reasons and fairness to other inventors, I will follow the rules and regulations in creating, researching, and presenting my invention fair entry and in making my 2 to 6 minute, unedited video presentation.

**I understand** I have more opportunity at home than in an exhibit hall space to access electricity, to display an invention prototype or model that is larger than normally allowed, and to access water if needed to demonstrate my invention. I understand it is acceptable to use pictures, illustrations or digital imaging to represent my invention or to use cardboard models to save expense.

**I am aware** live animals are not allowed to be used as part of my exhibit or presentation. Awareness of any participant requiring a personal service animal is important in planning for judging, traffic flow, and safety.

**As an Inventor Fair Participant**, I will conduct myself with respect for others, with careful consideration for my actions, and have qualified supervision while working on my project. I look forward to being judged virtually and/or in person.

|  |  |  |
| --- | --- | --- |
| I believe my invention is original! | | Date |
| Inventor | | |
| Grade Level | Student Folder Code | |

**Seniors Only***- Would you consider attending a local college or university if a scholarship were awarded?*

YES [ ] NO [ ]

|  |  |
| --- | --- |
| **Invention Title** |  |
| **School** |  |
| **Teacher Name** (please print) |  |
| **Teacher Signature** |  |

Parents/Guardians can find additional information online at [www.edisonfairs.org/](http://www.edisonfairs.org/) .

See *InventorsFair*/*GuidelinesforParentsandGuardians.* Schools using digital ***Student Folders*** need to provide each student with an individual ***Student Folder Code***. **Students, please make note of this code.**

##### **The Edison Fairs Regional Inventors Fair**

**Permission for Participation**

**Resources** on the next page are offered in good faith. Edison Fairs, Inc. cannot control the content of other websites and resources. Fees may be charged for some services. Please use your discretion when reviewing content. If you have any issues with any of the resources listed, please email [inventors@edisonfairs.org](mailto:inventors@edisonfairs.org). Thank you.

## PARENT/ GUARDIAN

**IN PERSON COMPETITIONS are planned. A hybrid fair using a combination of both ‘In Person’ and Virtual portions may also prove of value.** Please understand whichever approaches are used, it will be in the best interests of safety, efficiency, and experiential value.

Safety is of paramount importance at live events. If you would not allow for your child to attend an event away from home without supervision, this is no exception. During the designated judging period, a parent/guardian is not allowed on the judging floor. I understand and agree to take precautions at all other times during the event.

**Special arrangements will be made for students with special needs.** Please contact *inventors@edisonfairs.org* no later than one week before the event. Ask to speak with an Inventor Fair administrator if any concerns arise the day of the Fair. **If not resolved to your satisfaction, request the attention of the Inventors Fair Director.**

**VIRTUAL ONLINE COMPETITION:** As parent/guardian, I will be responsible for safety and provide for technological support as needed to help my child with being virtually judged and to help follow Virtual Inventor Student Guidelines as provided at[www.edisonfairs.org](http://www.edisonfairs.org) and [www.zfairs.com](http://www.zfairs.com) *Florida Gulf Coast affiliation*. The Inventors Guide Logbook contains similar guidelines.

**Signing this form acknowledges your approval of the Rules & Regulations accessible via the website. Request a copy at *inventors@edisonfairs.org.***

|  |  |
| --- | --- |
| **Signature** |  |
| **Phone Number** | ( **\_\_\_\_\_\_\_\_ ) \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| Please check one [ ] Parent or Guardian Phone [ ] Student Phone | |
| **Phone Number** | ( **\_\_\_\_\_\_\_\_ ) \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| Please check one [ ] Parent or Guardian Phone [ ] Student Phone | |
| **E-Mail** Student | |
| **E-Mail**  Parent/ Guardian | |

Second Parent/ Guardian

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_**

**Alternative Email \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Edison Regional Inventors Fair

**AI GUIDELINES**

**Honesty, integrity, and trustworthiness are cornerstones of the Edison Fairs*.***

**Deceptive or fraudulent use of AI in violation of the guidelines may be grounds for rejection.**

**Using AI is a privilege that comes with responsibilities no matter what your age!**

**The current use of AI (not limited to chatbots, large language models, deep learning,**

**or generative AI programs) and future Artificial General Intelligence (capable of learning any task or subject) will be subject to the following requirements until revised.**

**Background:** Walt Disney is famous for saying **“If we can dream it, we can do it.**” Artificial Intelligence puts a new spin on it, **“If you ask AI, it can do it.”** Well, close enough to challenge STEAMIE today and tomorrow. Monitoring AI use is within the scope of this program.

AI has enormous potential to influence every aspect of our lives. It is an evolving invention with the potential of unlimited data base expansion from which responses to inquiries or prompts can be generated in seconds. This applies to every aspect of the inventor fair rubric. AI has a diverse range of potential responses including ‘hallucinations’, the term used for erroneous information. Best practices for student use of AI are a worthwhile goal of the Edison Regional Inventors Fair.

Rules and regulations will reflect existing practices already in place for verifying assistance from various sources. *Acknowledging AI assistance will be similar to acknowledging help from parents, teachers, mentors, and friends. Basically this will mean recording any of the following that apply:*

**Grades 4th – 12th Logbook Entry Requirements**

**AI tutoring to stimulate a student’s own critical and creative thinking skills and improve spelling, grammar, and presentations is welcomed**. Before submitting the final logbook entered into judging, please designate whether or not your work has been ***AI assisted.***

***This will have no bearing on the final logbook score. It is for internal use only.***

**However, AI generated information that is claimed as the student’s own original information will have bearing and can lead to disqualification**..

**Grades 9th – 12th Entry Requirements: AI TRACKING Form Sample**

|  |  |  |
| --- | --- | --- |
| **Prompt Number**  **1** | | **Relevant Prompt (Provide best prompt for inquiry. Filter our irrelevant prompts). Cite peer reviews** |
| **Supervisor** | |
| **AI**  **Assisted** | **AI Generated** | **Relevance of AI Generated Information. How does it impact the student’s original thoughts?**  **Paraphrasing an AI generated reply as your own will be grounds for disqualification.** |
| **AI Tutored [X]** | **New info [X]** |
| **AI Program** | **Time/Date** |

**DISCLAIMER**

**IMPORTANT:  This disclaimer protects the Edison Fairs, NOT YOU!**

Your idea will have public exposure.  Theft of student ideas has not knowing occurred since the beginning of this Inventors Program but that is no excuse to ignore the possibility. Edison Fairs cannot prevent this. Just like any person or business pursuing an original idea, you must accept the risk and decide if you wish to take steps to protect your idea as best you can. This workbook will describe your options to do this now as well as to better prepare you for your future.

**It is up to parents, legal guardians, or students participating in the Fair**

**to accept this risk and hold harmless the Edison Fairs.**

**If you are questioning whether or not to enter the Invention fair, this is YOUR decision.**

**THERE ARE RISKS AND REWARDS.**

Believe in yourself and be willing to accept the challenge of learning what works and what doesn’t.

**Scientists strive to understand nature from quarks & nanoparticles to black holes & the universe.**

Teachers create lesson plans and delivery methods to help make learning fun and meaningful.

**Coaches and athletes devise innovative plays and training techniques.**

Musicians innovate using sounds and words.

**What are you curious about? What would you like to understand and maybe improve upon**

**. . . whether or not you win any immediate recognition or awards!**

**The Edison Fairs Inventors Program is not the finish line, it’s the launching pad!**

**KNOWLEDGE IS POWER**

The primary purposes (rewards) of this invention program are to promote creative thinking in K – 12 grade students and to make learning more interesting.  Students perform better and can be motivated by the invention process to appreciate and apply subjects taught in and outside of schools.

Other rewards of the invention program include opportunities to:

         expand educational and career opportunities,

         gain valuable recognition and awards,

         apply STEM understanding and discoveries,

         balance progress with the wellbeing of life on this planet and beyond.

If you believe you have a profitable idea that is “new and useful”and you wish to profit from it,

Understand how to protect your intellectual property BEFORE SHOWING IT IN PUBLIC!

See **Educational Guide (Inventors Fair-Student Resources)**

[**www.edisonfairs.org**](http://www.edisonfairs.org)

**Great Resources** (All links verified in August 2022)

* Henry Ford National Invention Convention – has multiple language Logbook Info  [https://inhub.thehenryford.org/invention/convention](https://inhub.thehenryford.org/invention/convention%20-%20K-12) Lesson Plans for Teachers
* [uspto.gov/kids](http://uspto.gov/kids) (general) and [www.uspto.gov/teens](https://www.uspto.gov/teens) (Patent searching)
* <https://cainventionconvention.org>  see Student and Educator links
* The National Inventors Hall of Fame  [www.invent.org](https://www.invent.org/)
* For outside the box opportunities, search *Disney Imagineering* for youth programs, high school and college competitions
* Professionals in the Industry (check out [linkedin.com](https://www.linkedin.com/) for possible people to interview)
* Small Business Administration [sba.gov](https://www.sba.gov/) Starting a Business & Business Plans
* Small Business Innovation Research [www.SBIR.gov](http://www.SBIR.gov)   source of funding
* Service Corps of Retired Executives [www.SCORE.org](https://www.score.org/) free consultations
* Junior Achievement of Southwest Florida: financial literacy, entrepreneurship
* National Association of Manufacturers | NAM [nam.org](https://www.nam.org/)
* Singularity University [su.org](https://www.su.org/)
* Lemelson Foundation Invent Teams <https://lemelson.mit.edu/inventeams>
* Patent attorneys often provide a free initial consultation. Alternatively you may visit [www.PatentPathway.com](http://www.patentpathway.com/).  **Caution**, the free information is excellent but there is a fee charged for professional services upon request.
* Inspiration – [www.ImagineSolutionsConference.com](http://www.ImagineSolutionsConference.com)
* Small Business Development Center <https://fsbdcswfl.org> at FGCU
* National Science Teachers Association [www.NSTA.org](http://www.NSTA.org)

**Educational & STEM Inspirational videos resources:**

* [www.boeingfutureu.com](http://www.boeingfutureu.com) - great for aeronautical interests
* [www.thepocketlab.com/vidoe/scic9/openscied](http://www.thepocketlab.com/vidoe/scic9/openscied)
* [www.biomimicry.org](http://www.biomimicry.org) - absolutely fascinating
* [www.Boeingfutureu.com](http://www.Boeingfutureu.com) :  vast library of experiential videos & future career choices.
* [www.DiscoveryEducation.com](http://www.DiscoveryEducation.com) :  no need to log in to check this resource out
* [www.Universeandmore.com](http://www.Universeandmore.com) :  Challenged by Physics?  For Gamers especially
* [www.NextGenScience.org](http://www.NextGenScience.org) Wish these were available years ago!
* [www.DreamWorks](http://www.DreamWorks) :  Learn how Math makes Animation flow!

**Discover what a ‘Shrek’le measurement is.**

**ENTREPRENEURIAL RESOURCES**

* Small Business Administration [sba.gov](https://www.sba.gov/) Starting a Business & Business Plans
* Small Business Innovation Research [www.SBIR.gov](http://www.SBIR.gov)   source of funding
* Service Corps of Retired Executives [www.SCORE.org](https://www.score.org/) free consultations
* Junior Achievement of Southwest Florida: financial literacy, entrepreneurship

**REGIONAL ENTREPRENEURIAL DEGREE PROGRAMS**

* FGCU Daveler & Kauanui School of Entrepreneurship <https://www.fgcu.edu/school-of-entrepreneurship>
* FGCU Lutgert College of Business <https://www.fgcu.edu/cob>
* FSW School of Business and Technology <https://www.fsw.edu/sobt>
* Hodges University <https://www.hodges.edu/prog-bachelors-degrees.html>

**NOTES**