


**Scouts
Treasure
Enthusiastic
Mentors**

 Lewis & Clark Council
St Clair District

3 Mar 2016

Ward Walker
Troop/Crew 52 (SC)
LCC STEM Committee Mbr

<http://www.troop52.org/STEM.html>


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The graphic features a blue silhouette of a landscape at the bottom, including a tent, a canoe, a bridge, and people on bicycles. The text is primarily in red and blue.

Industry asked the BSA to get Scouts Prepared For Life in the STEM disciplines; but this program has a lot of adult involvement required—we need you to help!

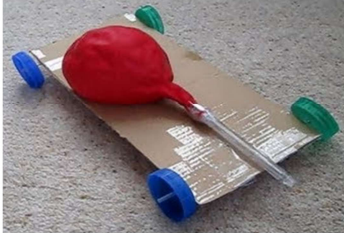
More info can be found at the link shown here.

Science



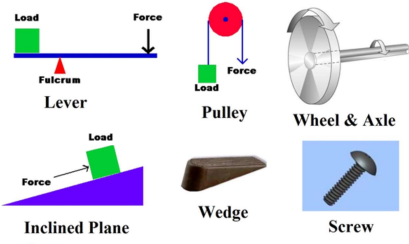
What Interests You?

Technology

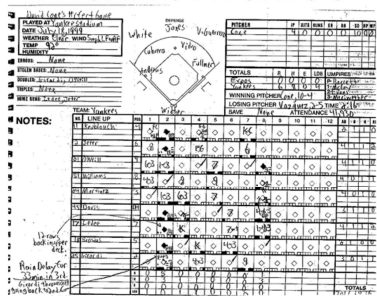


Engineering

Simple Machines



Mathematics



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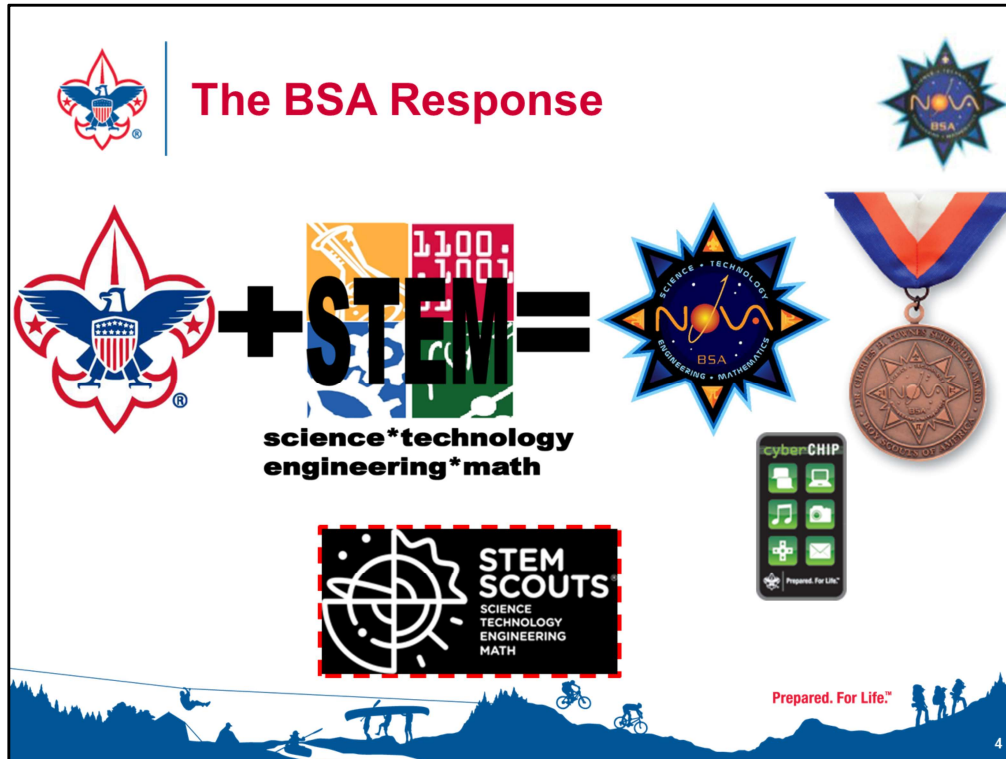
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1. Do you like “Things that Fly?” Then you are interested in Science!
2. Do you like Transportation? Then you are interested in Technology!
3. Do you like to get the most work done with the least effort? Then you like Engineering
4. When you are at a Cardinals game, do you fill out the stat sheet? Then you like Mathematics!

And chance are, if you are interested in any of these your Scout will become interested too!



The BSA has long prepared Scout for Life. One example of this is the number of Eagle Scouts who have had Out-Of-This-World careers with NASA



Industry asked, and the BSA responded to the STEM skills deficiency by augmenting the already strong STEM opportunities (Activity & Merit Badges, etc) with the NOVA and SuperNova programs.

Because “going digital” introduces new risks to Scouts, the BSA also added special annual training for Scouts called “Cyber CHIP”.

The BSA is also experimenting with a new program called STEM Scouts—one of the few experimental units is across the river in GSLAC! We won’t talk more about this alternate program today—we are focused on “traditional” Scouting



BSA STEM Program



Nova/Supernova Format

- Familiarization
- Exploration
- Relevance

Expectations/Outcomes

- Age-Appropriate Learning
- Interest
- Confidence
- Fun




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Whether doing NOVA activities or SuperNova “Science Fair” kind of work, Scouts will familiarize themselves with the subject matter, explore it themselves then dig in an Do Something – to apply it to their lives

Ensure that the Scouts do the program that is appropriate for their Age group, and KEEP IT INTERESTING! Let them leave having surmounted obstacles themselves.


What Are Nova Awards?




Wrong Patch!



Wrong Patch!





	Science	Technology	Engineering	Mathematics
Cub Scouts, Webeles	Science Everywhere	Tech Talk	Swing!	1-2-3 Go!
Boy Scouts, Varsity	Shoot!	Start Your Engines	Whoosh!	Designed to Crunch
Venturing	Launch!	Power Up	Hang On!	Numbers Don't Lie

Nova Award patches are color coded by program: Blue for Cub Scouts, Red for Boy Scouts, Green for Ventur Crew [coming soon]. Nova patches and pins are available from your local Scout Shop; check with the unit advancement chair. The first award is the patch; the next three awards are pins that affix to the E / S / W points.

...and MORE on the Way!

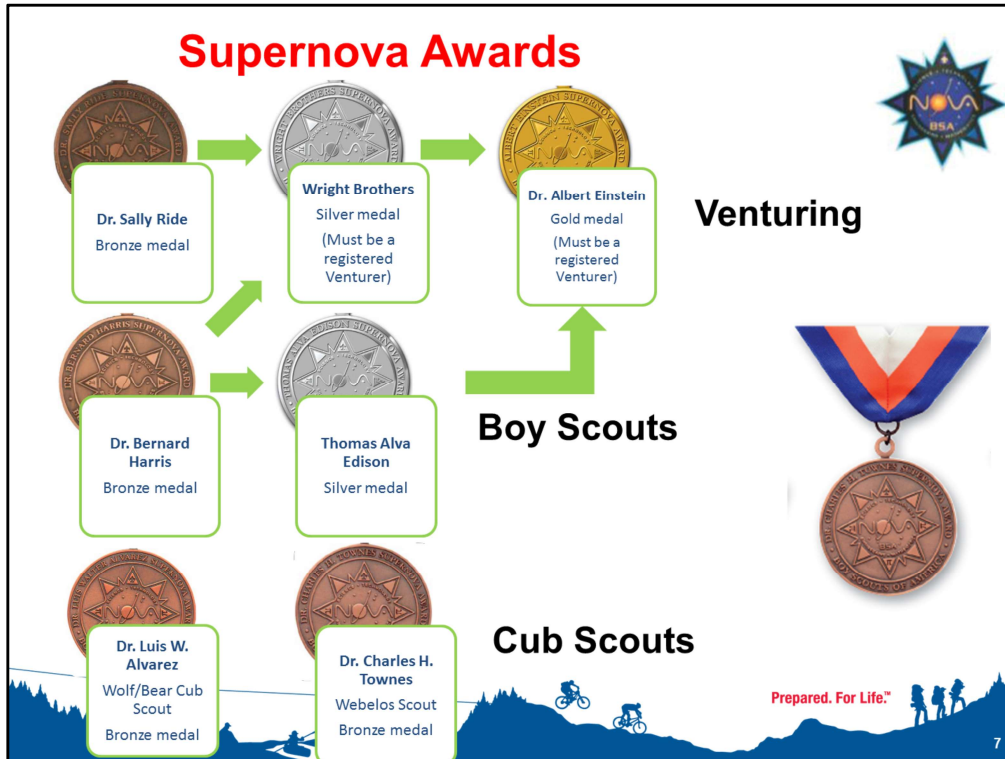
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The first of the two BSA STEM programs is the NOVA Awards. There are different programs for each type of Scout program, and they do not overlap/cross-pollinate. Within each, there are four basic tracks aligned to each of the four areas of STEM. However, more will be added—the Cub Scouts already have an additional three to choose from, and those are more topically oriented.

While the printed books are very helpful, all new / expanded material will only be available online!

Be very careful about what badge to give which Scouts—the border is Blue for Cubs, Red for Scouts, and Green for Venture—not what is shown on the book cover!!



For more in-depth knowledge of STEM Scouts, can work on their Supernova Award.

- Completing the requirements takes more work and includes some research.
- Most Supernova activities will take several weeks or months to complete.
- They get more difficult as the youth works up through the awards.
- To work on any level award you must be registered in that program.
- After completion, Scouts will fill out their Supernova application found on www.scouting.org.

Let's break down the levels of the awards.

Cub Scout and Webelos awards are not prerequisites to the Boy Scout awards. Additionally, the Cub Scout award is not required before earning the Webelos Awards. In order to earn the Einstein Award, the scout **MUST** be a registered Venturer.



BSA STEM Adult Roles

- **Unit STEM Coordinator**
- **Nova Counselor**
- **Supernova Mentor**
- **STEM Nova Program member/chair**
 - District, Council and National levels
- **STEM Camp staff**
 - Summer camp, camporees, Jamboree, etc
- **Supporter / promoter**




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There are many ways for Adults to help deliver a STEM program. Today we will concentrate on NOVA Counsellor and SuperNova Mentor


 Counselor / Mentor Requirements 	
Nova Counselors	Supernova Mentors
Must be age 21 or older (registered under the Nova Awards counselor position code 58 . This is a non-unit position and requires no fee)	Must be age 21 or older and registered under the Nova Awards counselor position code 52 . This is a non-unit position and requires no fee
Youth Protection Trained	Youth Protection Trained
Training would be helpful	Nova Counselor/Mentor Trained
Can be a parent or scout leader	NOT the parent or Unit Leader of your participant (unless leading more than your own child)
Able to guide participant activities	Able to guide participant activities over many months
Knowledgeable in STEM topics (is able to research topics)	Expert in STEM topics and guiding students
	Approved by the Council Nova Committee (Supernova Mentor Application)

Here are the details about who can do what



Application Process

<h3 data-bbox="316 367 576 399">Nova Counselor</h3> <ol data-bbox="341 409 779 630" style="list-style-type: none"><li data-bbox="341 409 779 472">1. BSA Adult application (code 58 for Nova Counselor)<li data-bbox="341 483 779 546">2. Youth protection training certificate<li data-bbox="341 556 779 619">3. Nova/Supernova training certificate <p data-bbox="341 714 779 808">Submit copy of these 3 items to your Council/District STEM committee or Advancement chair</p>	<h3 data-bbox="820 367 1112 399">Supernova Mentor</h3> <ol data-bbox="844 409 1282 661" style="list-style-type: none"><li data-bbox="844 409 1282 472">1. BSA Adult application (code 52 for Supernova Mentor)<li data-bbox="844 483 1282 546">2. Youth protection training certificate<li data-bbox="844 556 1282 619">3. Nova/Supernova Mentor training certificate<li data-bbox="844 630 1282 661">4. SN Mentor application <p data-bbox="844 714 1282 808">Submit copy of these 4 items to your Council/District STEM committee or Advancement chair</p>
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Here is a simple checklist on what you will need to have in order to sign up



Lewis & Clark Council's Nova Counsellors/SuperNova Mentors



Last count 1/26/2016
Only 8 for all of LCC's 26K Scouts!!

First Name	Middle Name	Last Name	City	State	Demographics Comments
Elisa	Lucia	D'Antonio	Saint Jacob	IL	Astronomy, Weather, Geology, Geography, Science, Space Exploration,
Mary	E	Clymer	O Fallon	IL	Digital Technology
John	Joseph	Radecki	Belleville	IL	Engineering, Robotics Supernova Mentor
James	Robert	Young	O Fallon	IL	S.T.E.M. Mentor of all awards listed
Brian	Edward	Dougherty	O Fallon	IL	Science, Technology, Engineering, Mathematics, Robotics
Mark	A	Smith	Wood River	IL	STEM Counselor Digital Technology
Bobbie	Sue	Hill	Collinsville	IL	Super Nova mentor--Cubscout SA, Webelos SA, Bernard Harris SA, Thomas Edison, Dr Sally Ride, Wright Brothers, Dr Albert Einstein
Nikki	Renee	Kurfman	Millstadt	IL	Supernova Mentor




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We REALLY need your help—the LCC program is in crisis for lack of Adult registered volunteers



Will You Be a Counselor or Mentor?



- The Youth of Today and the America of Tomorrow need your support
- Share your STEM expertise



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Please help!



**Questions,
Comments,
Feedback...**

<http://www.troop52.org/STEM.html>



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If you have any questions, please see me afterwards.

More info can be found at the link shown here.