

Dr. Sally Ride



Venturer Supernova Award Workbook

This Workbook You still must satisfy You should use the work spac and to make notes fo If a requireme	can help you but you still need to read the Venturer Nova Awar can help you organize your thoughts as you prepare to meet w your mentor that you can demonstrate each skill and have lear ce provided for each requirement to keep track of which require or discussing the item with your mentor, not for providing full an ent says that you must take an action using words such as "disc ", "explain", "demonstrate", "identify", etc, that is what you must	ith your mentor. ned the information. ments have been completed, d complete answers. cuss", "show",
Men	ntors may not require the use of this or any similar workboo	oks.
	from the official requirements found in the Venturer Nova Awar to were issued in 2015 • This workbook was updated in A	
Venturer's Name:	Unit:	
Mentor's Name:	Mentor's Phone No.:	
http	://www.USScouts.Org • http://www.MeritBadge.	Org
Please submit errors, omis	ssions, comments or suggestions about this <u>workbook</u> to: Wor	kbooks@USScouts.Org
Send comments or suggestions	s for changes to the requirements for the Nova Award to: Pro	gram.Content@Scouting.Org
	First-Level Supernova Award for Venturers	
-	enturer Nova Awards. (Note: These may be done at any til	me after becoming a Venturer.)

1		Complete 7	THREE of the	Venturer	Nova	Awards.	(Note:	These I	may be	done a	at any	time a	after	becomin	g a '	Venturer.
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	Launch!	
\square	Power Up	

	nang On:
1	Numbers Den't

Numbers Don't Lie

- 2. Complete the Venturing Scholarship exploration.
 - A. Do ONE of the following:
 - 1. Show that you have had an average grade of B or higher (80 percent or higher) for one term or semester.
 - 2. Show that for one term or semester you have improved your school grades over the previous period.
 - B. Do TWO of the following:
 - 1. Discuss with your mentor the following situation: Suppose you are writing a research paper and you find a resource in which the author's words are so perfectly aligned with your perspectives and understanding that you cannot imagine a better way to put it in your paper than to use the author's own words. How can you handle such a situation while still maintaining scholarly integrity?
 - Discuss with your mentor the following situation: Suppose you are writing a research paper and you find □ 2. resources with conflicting "facts" and/or conflicting conclusions. What are some viable strategies for resolving these conflicts and deciding which resources are trustworthy?
 - Discuss with your mentor the following situation: Suppose you are writing a research paper and have □ 3. acquired dozens of resources. How would you keep track of the resources, summarize the salient parts of each resource, and synthesize the collection of resources into a coherent research paper?
 - C. Get a note from an instructor* of yours that states that during the past term you have demonstrated satisfactory abilities or progress in independently completing scholarly endeavors and proactively seeking help when needed. *If you are home-schooled, you may obtain a note from a counterpart such as your parent. If you are near the end of your current term, you may ask a current instructor. Otherwise, you should ask an instructor from the immediate past term.

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Wright Brothers	Venture	er's Name:
D. Do ONE of the following:		
	en part in a scholarly activity (in school or ir r what you learned about how a team of pe	3 /
	line, in a library, personal interview, etc.) c rith your mentor what you learned about ho iciently.	
E. Do ONE of the following:		
•	proximately 500 words that defends or opp stances of cheating by others." Discuss this	• •
—	r crew, school class, or another peer group as the question, "Should students be obliga	•
— • •	turing STEM Explorations" chapter, compl ese may be completed at any time after be	•
Animal Science	Energy	Nuclear Science
Archaeology	Engineering	Oceanography
Architecture	Environmental Science	Plant Science
Astronomy	Farm Mechanics	Pulp and Paper
Automotive Maintenance	Fish and Wildlife Management	Radio
Aviation	Forestry	Reptile and Amphibian Study
Bird Study	Gardening	Robotics
Chemistry	Geocaching	Scuba Diving
Composite Materials	Geology	Soil and Water Conservation
Computers	Insect Study	Space Exploration
Dentistry	Inventing	Surveying
Drafting	Mammal Study	Veterinary Medicine
Electricity	Medicine	Weather
Electronics	Nature Nature	U Welding
4. Complete TWO Supernova activity top	pics, one each in two different STEM areas	
Science T	echnology Engineering	Mathematics
	l science fair or mathematics competition C roved by your mentor. An example of this v	
Competition:		
Date		
6. Do ONE of the following:		
A. Spend at least one day "shadowir	ng" a local scientist or engineer.	
Date: Pe	erson Shadowed:	
After your visit, discuss with your	mentor your experience and what you lear	ned about STEM careers.
B. Learn about a career that is heave	ily involved with STEM.	
Career:		
Make a presentation to your ment	tor about what you learned.	

Wright Brothers

7. Working with your mentor; organize and present a Nova award or other STEM-related program at a Cub Scout den or pack meeting. Be sure to receive permission from the appropriate unit leader, and plan accordingly. If a Cub Scout den or pack is not available, your presentation may be given to another youth group.

	Date:			Group:								
	Subje	ct:										
8. Review the scientific method (you may know this as the scientific process) and note how scientists establish hypotheses, theories, and laws. Compare how the establishment of "facts" or "rules" using the scientific method differs from the establishment of "facts" or "rules" in other environments, such as legal, cultural, religious, military, mathematical, or social environments.												
	Then o	lo e	ach of the following:									
	ea		theory. Analyze the c	a current subject with at least two competing theories on the subject and learn as much as possible about eory. Analyze the competing theories, decide which one is most convincing to you, and explain why to your								
					hat describes the controversy, the competing theories, and your conclusions or cannot contribute to the resolution of the controversy.							
9.	Submi	t an	application to the dis	trict Nova	or advancement committee for approval.							
		-	of the Guide to Adv	rancemen	rds, Scouts and Scouters should be aware of some vital information in the <i>t</i> (BSA publication 33088).Important excerpts from that publication can be <u>//usscouts.org/advance/docs/GTA-Excerpts-nova.pdf</u> .							

You can download a complete copy of the Guide to Advancement .from http://www.scouting.org/filestore/pdf/33088.pdf.