

Dr. Sally Ride



Venturer Supernova Award Workbook

This workbook can help you but you still need to read the Venturer Nova Awards Guidebook.

This Workbook can help you organize your thoughts as you prepare to meet with your mentor.

You still must satisfy your mentor that you can demonstrate each skill and have learned the information.

You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your mentor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Mentors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in the Venturer Nova Awards Guidebook (Pub. 34031).

The requirements were issued in 2015 • This workbook was updated in August 2018.

Venturer's N	ame:	Unit:
Mentor's Nar	me:	Mentor's Phone No.:
	http://ww	w.USScouts.Org • http://www.MeritBadge.Org
		comments or suggestions about this workbook to: Workbooks@USScouts.Org
Send	I comments or suggestions for ch	anges to the requirements for the Nova Award to: Program.Content@Scouting.Org
	Fi	st-Level Supernova Award for Venturers
☐ 1. Cor	nplete THREE of the Venture	Nova Awards. (Note: These may be done at any time after becoming a Venturer.)
	Launch!	☐ Hang On!
	Power Up	□ Numbers Don't Lie
2. Cor	nplete the Venturing Scholars	iip 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 to	rm or semester you have improved your school grades over the previous period.
□ B.	Do TWO of the following:	
	resource in which the that you cannot ima	entor the following situation: Suppose you are writing a research paper and you find a e author's words are so perfectly aligned with your perspectives and understanding gine a better way to put it in your paper than to use the author's own words. How can tuation while still maintaining scholarly integrity?
	resources with conf	entor the following situation: Suppose you are writing a research paper and you find cting "facts" and/or conflicting conclusions. What are some viable strategies for icts and deciding which resources are trustworthy?
	acquired dozens of	entor the following situation: Suppose you are writing a research paper and have resources. How would you keep track of the resources, summarize the salient parts of synthesize the collection of resources into a coherent research paper?
□ C.		of yours that states that during the past term you have demonstrated satisfactory ndently completing scholarly endeavors and proactively seeking help when needed.
		ou may obtain a note from a counterpart such as your parent. If you are near the end of sk a current instructor. Otherwise, you should ask an instructor from the immediate past

Workbook © Copyright 2017 - U.S. Scouting Service Project, Inc. - All Rights Reserved Requirements © Copyright, Boy Scouts of America (Used with permission.)

This workbook may be reproduced and used locally by Scouts and Scouters for purposes consistent with the programs of the Boy Scouts of America (BSA), the World Organization of the Scout Movement (WOSM) or other Scouting and Guiding Organizations.

However it may NOT be used or reproduced for electronic redistribution or for commercial or other non-Scouting purposes without the express permission of the U. S. Scouting Service Project, Inc. (USSSP).

Wright Brothers						Ve	nturer's Na	me:
		D. I	Do ONE	of the following:				
		[<u> </u>					ting) that required teamwork, and can work together effectively, fairly,
		[<u> </u>	•	with your	• •	, .	ert advice on successful teamwork eam of people can work together
		E. I	Do ONE	of the following:				
		[<u> </u>	•	•	ely 500 words that defends o of cheating by others." Discus		the principle that, "Students should your mentor.
		[<u> </u>			chool class, or another peer of estion, "Should students be c		luct an ethical controversy report instances of cheating by
	3.					ΓΕΜ Explorations" chapter, c be completed at any time afte		EM explorations for four of the g a Venturer.)
			Animal	Science		Energy		Nuclear Science
			Archae	eology		Engineering		Oceanography
			Archite	cture		Environmental Science		Plant Science
			Astron	omy		Farm Mechanics		Pulp and Paper
			Autom	otive Maintenance		Fish and Wildlife Management		Radio
			Aviatio	n		Forestry		Reptile and Amphibian Study
			Bird St	udy		Gardening		Robotics
			Chemi	stry		Geocaching		Scuba Diving
			Compo	site Materials		Geology		Soil and Water Conservation
			Compu	iters		Insect Study		Space Exploration
			Dentist	ry		Inventing		Surveying
			Draftin	g		Mammal Study		Veterinary Medicine
			Electric	city		Medicine		Weather
			Electro	nics		Nature		Welding
	4.	Com	plete TV	O Supernova activity to	pics, one	each in two different STEM a	areas.	
			Scienc	e \Box	Technolog	y Engineer	ring	☐ Mathematics
	5.							any equally challenging STEM- be an X-Prize type competition.
		Com	petition:		<u>`</u>	·		,, ,
		Date						
П	6.	Do C	NE of th	e following:				
ш				t least one day "shadow	ing" a loc	al scientist or engineer.		
			Date:	-	Person Sha			
			۱ After you	 ır visit, discuss with vour	mentor v	our experience and what you	ı learned al	oout STEM careers.
			•	out a career that is heav	•	•		
	_		Career:		<u>-</u>			
			Make a p	presentation to your mer	ntor about	what you learned.		

Wright Brothers					Venturer's Name:		
7.	pack	Vorking with your mentor; organize and present a Nova award or other STEM-related program at a Cub Scout den or ack meeting. Be sure to receive permission from the appropriate unit leader, and plan accordingly. If a Cub Scout den r pack is not available, your presentation may be given to another youth group.					
	Da	te:		Group:			
	Sul	bject:					
8.	theo esta	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.					
	The	Then do each of the following:					
			theory. Analyze the co		t two competing theories on the subject and learn as much as possible about 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.	Sub	mit an	application to the dist	trict Nova	or advancement committee for approval.		

When working on Nova and Supernova awards, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088).Important excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts-nova.pdf.

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