

Start Your Engines



Boy Scout Nova Award Workbook

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

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

You still must satisfy your counselor 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 counselor, 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.

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

No one ma	y add or subtract from the official red	quirements found in the B	oy Scout Nova Awards Guideboo s workbook was updated in June	k (Pub. 34033 – SKU 614936).
Scout's Nam	e:		Unit:	
Counselor's l	Name:		Counselor's Phone No.:	
	Please submit errors, omis	sions, comments or suggr for changes to the <u>requir</u>		Norkbooks@USScouts.Org Program.Content@Scouting.Org
	A <i>or</i> B or C and complete ALL th Watch about three hours total of transportation technology. What was watched?	•	ows or documentaries that inv Start Time	olves transportation or Duration
	<u></u>			

Some examples include—but are not limited to—shows found on PBS ("NOVA"), Discovery Channel, Science Channel, National Geographic Channel, TED Talks (online videos), and the History Channel. You may choose to watch a live performance or movie at a planetarium or science museum instead of watching a media production. You may watch online productions with your counselor's approval and under your parent's supervision.

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Then do the following:

1.	Make a list of	at least two o	uestions or	· ideas from	each show	vou watched

e a list of at least two questions or ideas from each show you watched.

2. Discuss two of the questions or ideas with your counselor.

1.	
2.	

our Engir	nes		Scout's Name: _		
] B. Re	ead (about three hours total) about transportation or t	ansportation technology		
	Science, Science Illustra	nclude—but are not limited to—Odyssey, Popular Mechanics, Popular red, Discover, Air & Space, Popular Astronomy, Astronomy, Science News, I History, Robot, Servo, Nuts and Volts, and Scientific American.			
	What was read?	Date	Start Time	Duration	
L Th	en do the following:				
1.		questions or ideas from ea	ch article.		
	1.				
	2.				
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				
	8.				

Scout's Name:

Start Your Er	ngines			Scout's Name: _	
		cuss two of the questions o	r ideas with your counselo	r.	
	1.		· · · · · · · · · · · · · · · · · · ·		
	2				
	2.				
\sqcap C	Do a co	mhination of reading and v	watching (about three hou	re total)	
			watching (about three hou		
		t was watched or read?	Date	Start Time	Duration
					Duration
	What	t was watched or read?			Duration
	What	t was watched or read?	Date	Start Time	Duration
	What	t was watched or read? the following: ke a list of at least two ques	Date	Start Time	Duration
	What	t was watched or read? the following: ke a list of at least two ques	Date	Start Time	Duration

1.	
2.	
3.	
4.	
5.	

Start Your Engines	Scout's Name:
6.	
2. Discuss two of the question	ons or ideas with your counselor.
1.	
2.	
Automotive MaintenanceAviationCanoeingCyclingDraftingElectricity	following list. (Choose one that you have not already used toward another Nova award.) Energy
	the energy source(s) used in these merit badges
2. Discuss the pros and	d cons of each energy source with your counselor

Start Your Engines			Scout's	s Name:
		ke a list of sources of energy that may		
			_	
□ C.	∟ With	h your counselor:		
L		Discuss alternative sources of energy	y	
	2.	Discuss the pros and cons of using a	Iternative energy sources	
4. Design a	and b	uild a working model vehicle (not fron	 n a kit).	
		ke drawings and specifications of your		uild.

Start Your E	ngines	Scout's Name:
□ В.	Include o	one of the following energy sources to power your vehicle (do not use gasoline or other combustible fuel
	source):	solar power, wind power, or battery power.
		Solar Power
☐ C.		wwell did it perform?
	2. Did	it move as well as you thought it would?
	3. Did	you encounter problems? How can these problems be corrected?
	o. Dia	you directified problems. Now can allose problems be consoled.

Start Your Engines			Scout's Name:
□ D.			with your counselor:
	1.	Any	difficulties you encountered in designing and building your model
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		l	
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		l	
	2.	Why	y you chose a particular energy source
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		I	
	3.	\//he	ether your model met your specifications
	J.	VVIIC	mier your moder met your specifications
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		ļ	
		I	
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	4.	How	v you would modify your design to make it better
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Start Your Engines	Scout's Name:
6. Discuss with your counselor how technology affect	cts your everyday life.

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.