

# Swing!





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

The work space provided for each requirement should be used by the Scout to make notes for discussing the item with his counselor, not for providing the full and complete answers. Each Scout must do each requirement.

No one may add or subtract from the official requirements found in the Cub Scout Nova Awards Guidebook (Pub. 34032 – SKU 614935).

		The requirements v	were issued in 2012 • This	workbook was updated in April 2	014.	
Scout's Name:				Unit:		
Counselor's Name:			Counselor's Phone No.:			
SERVICE SERVICE		<u>ht</u>	tp://www.USScouts.Org	<ul> <li>http://www.MeritBadge</li> </ul>	.Org	
				ions about this workbook to: Wo		
	Send co	mments or suggestio	ns for changes to the requirem	nents for the Nova Award to: Pro	ogram.Content@Scouting.Urg	
				explore how engineering affect your life each day	ı	
. Choose A	A <i>or</i> B or C	and complete ALL	the requirements.			
☐ A.	Watch an	episode or episode	es (about one hour total) of a	show about anything related t	o motion or machines.	
·	What	was watched?	Date	Start Time	Duration	
	You wat	u may choose to wa	atch a live performance or moduction. You may watch onlin	ED Talks (online videos), and ovie at a planetarium or scien ne productions with your count	ce museum instead of	
	Then do th	ne following:			<del>-</del>	
	1. Make	a list of at least two	questions or ideas from what	you watched.		
	1.					
	2.					

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	2.		o of the questi	ions or ideas with your cou	nselor.		
		1.					
		2.					
		Z					
∏ В	Re	ad (about on	ne hour total) :	about anything related to	motion or machines		
		What was re		Date	Start Time	Duration	
·		Books on r limited to 0	many topics n Odyssey, KID	nay be found at your local S DISCOVER, National G	library. Examples of magazin eographic Kids, Highlights, and	es include but are not d OWL or owlkids.com.	
	The	en do the fol	llowing:			_	
	1.	Make a list	of at least two	questions or ideas from w	hat you read.		
		1.					
		2.					

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

1.	

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·	ī					
	2.					
□ с п	l Do a com	bination of reading and v	vatching (about one	hour total) about any	vthing related to	motion or machines
□ • .		was watched or read?	Date	Start		Duration
Γ	vviiat	vas wateried of read:	Date	Otart	Tillic	Daration
-						
-						
-		the following:				
•	1. Make	e a list of at least two ques	tions or ideas from w	hat you read and wat	tched.	
	1.					
	2.					
4	2. Discu	uss two of the questions of	r ideas with your cou	nselor.		
	1.					
	2.					
	۷.					
2. Complete		It loop or pin from the foll	owing list. (Choose		ot already earne	ed.)
[		ninton		Mathematics		
Ĺ	Base			Softball Table Tennis		
[ 	BB-g Fishi	un Shooting		☐ Table Tennis☐ Tennis		
L	Golf	19		Ultimate		
[	Hock	ey				

2.

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A.	Mak	e a list or drawing of the three types of levers. (A lever is one kind of simple machine.)
	1.	
	2.	
	3.	

- B. Be able to tell your counselor
  - 1. The class of each lever
  - 2. How each lever works

	Class	How it works
1.		
2.		
3.		
J.		

C.	With 1.	n your counselor, discuss:  The type of lever that is involved with the motion for the belt loop or pin you chose for requirement 2
	2.	What you learned about levers and motion from earning your belt loop or pin
	3.	Why we use levers
	Visi	ollowing: t a place that uses levers, such as a playground, carpentry shop, construction site, restaurant kitchen, or any other ation that uses levers.
		Visitations to places like carpentry shops, construction sites, restaurant kitchens, etc. will require advance planning by the counselor. The counselor should call ahead to make arrangements and make plans to have appropriate supervision of all Scouts.
		The site will very likely have rules and instructions that must be followed. The counselor should help ensure that all the participants are aware of and follow those rules. This may include safety procedures and other instructions.
	Plac	ce visited:

Swi	ng!		Scout's Name:
	В.	Disc	cuss with your counselor the equipment or tools that use levers in the place you visited.
5.	Do	EAC	H of the following:
	A.		your own, design, including a drawing, sketch, or model, ONE of the following:
			A playground fixture that uses a lever
		2.	A game or sport that uses a lever
		3.	An invention that uses a lever

5.

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В	B. Discuss with your counselor how the lever in your design will move something.
6. D	Discuss with your counselor how levers affect your everyday life.

### Attachment - (NOTE: It is not necessary to print this page.)

## Important excerpts from the 'Guide To Advancement', No. 33088:

Effective January 1, 2012, the 'Guide to Advancement' (which replaced the publication 'Advancement Committee Policies and Procedures') is now the official Boy Scouts of America source on advancement policies and procedures.

- [Inside front cover, and 5.0.1.4] Unauthorized Changes to Advancement Program

  No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements. (There are limited exceptions relating only to youth members with disabilities. For details see section 10, "Advancement for Members With Special Needs".)
- [Inside front cover, and 7.0.1.1] The 'Guide to Safe Scouting' Applies
   Policies and procedures outlined in the 'Guide to Safe Scouting', No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects. [Note: Always reference the online version, which is updated quarterly.]

## • [7.0.3.1] — The Buddy System and Certifying Completion

Youth members must not meet one-on-one with adults. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative —or better yet, another Scout working on the same badge— along with him attending the session. When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult certification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

#### • [7.0.3.2] — Group Instruction

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material.

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout —actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions. Because of the importance of individual attention in the merit badge plan, group instruction should be limited to those scenarios where the benefits are compelling.