

Engineer

Webelos Activity Workbook

This workbook is not required but can help you with this activity badge. Your Webelos Den Leader approves your work. No one can add or subtract from the requirements. Webelos Workbooks and much more are below: Online Resources.

Send comments to the workbook developer: craig@craiglincoln.com. Workbook updated: April 2008.

Scout's Name:						Pack:						Activity Badge Counselor:																					
Do b	otl	h o	f th	ese	:																												
1.	7	Talk to an engineer, surveyor, or architect in your area about the																															
		Diffe	erer	nt o	ccu	pati	ons	in e	engi	inee	ering	g. C	rea	te a	list	tha	ıt te	lls w	/hat	the	y d	0.											
2.		Ora	w a	floo	or p	lan	of y	our	hou	use.	Inc	clud	e do	ors	i, Wi	indo	ows	, an	d st	airv	/ays	S.											
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And do four of these:

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	Visit a construction job. Look at a set of plans used to build the facility or product. Tell your Webelos den leader about these. (Get permission before you visit.)											
4.	Visit a civil engineer or surveyor to learn how to measure the length of a property line.											
	Explain how property lines are determined.											
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ο.	Tell about how electricity is generated											
	and then gets to your home.											
6.	Construct a simple working electrical circuit using a flashlight battery, a switch, and a light.											
7.	Make drawings of three kinds of bridges and explain their differences. Construct a model bridge of your choice.											

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Scout's Name: _____

8. Make a simple crane using a block and tackle and explain how the block and tackle is used in everyday life.
9. Build a catapult and show how it works.
10. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Mathematics. (All boys may earn belt loops and pins more than onceCub Scout Academics and Sports Program Guide p. 4)
Online Resources (Use any Internet resource with caution and only with your parent's or guardian's permission.) Engineer in helping to proper you for Engineering Architecture, and Electricity Merit Redges.
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Webelos Activity Badge Workbooks: ► usscouts.org -or- ► meritbadge.org
Cub Scout Academics and Sports Workbooks: ► meritbadge.org -or- ► Academics / Sports
Boy Scouts of America: http://www.scouting.org/ ► Guide to Safe Scouting ► Age-Appropriate Guidelines for Activities
► <u>Scout</u> ► <u>Tenderfoot</u> ► <u>Second Class</u> ► <u>First Class</u> <u> ⊆ Rank Videos</u>
Boy Scout Merit Badge Workbooks: <u>usscouts.org</u> -or- <u>meritbadge.org</u> ► Merit Badge Books: <u>www.scoutstuff.org</u>
Amer. Institute of Chemical Eng.: http://www.aiche.org
ASME (Amer. Soc. of Mechanical Eng.): http://www.asme.org Institute of Electrical and Electronics Eng: http://www.ieee.org
Jet Propulsion Laboratory: http://www.jpl.nasa.gov Junior Engineering Technical Soc.: http://www.jpl.nasa.gov
Kennedy Space Center: http://www.ksc.nasa.gov NASA: http://www.nasa.gov
Smithsonian National Air and Space Museum: http://www.nasm.si.edu