

Weather





This workbook can help you but you still need to read the merit badge pamphlet.

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

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

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. 33216 – SKU 653801).

The requirements were last issued or revised in 2018 • This workbook was updated in June 2020.

Scout's Name:				Unit:	
Coı	unselor's Nan	ne:	Phone No.:		Email:
			http://www.USScouts.Org ors, omissions, comments or suggestion or for changes to the requirements for the	s about this <u>workbook</u> t	to: Workbooks@USScouts.Org
1.	Define mete	eorology.			
	Explain wha	<u>it weather is ar</u>	nd what climate is.		
	Weather:				
	Climate:				
	,				· ·

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Discuss how the weather affects farmers, sailors, aviators, and the outdoor construction industry. Farmers: Sailors: Aviators: Outdoor construction: Tell why weather forecasts are important to each of these groups. **Farmers** Sailors: **Aviators** Outdoor construction

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^	Name five dangerous weather-related conditions.	0. 11 (1 1 (1 1 1 1 1
٠,	Name five danderous weather-related conditions	(-ive the satety rilles for each when outdoors
۷.	Name in a damperous weather-related conditions.	Olve the salety rules for each which outdoors

	Condition	Safety Rules
1.		
2.		
3.		
4.		
5.		
	explain the difference vere weather watch	between a severe weather watch and a warning.
se	vere weather warning	

Discuss the safety rules with your family.

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3. Explain the difference between high and low pressure systems	in the atmosphere.		
Tell which is related to good and to poor weather.			
Draw cross sections of a cold front and a warm front showing the frontal slope, the location and types of clouds associated with experiences.	he location and movements of the cold and warm air, the		
Cold Front	Warm Font		

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4. Tell what causes wind, why	it rains, and how lightning and hail are formed.							
What causes wind:	/hat causes wind:							
Why does it rain:								
How is lightning formed:								
- - - - - - - - -								
How is hail formed:								
 Identify and describe clouds 	s in the low, middle, and upper levels of the atmosphere.							
Low:								
Middle:								
Wilduic.								
High:								
r ligit.								

ific types of weath	ICI.			
ie water cycle and	d label its major p	processes.		
cle to vour couns	alor			
sic to your courist	3101.			
		he water cycle and label its major process to your counselor.	he water cycle and label its major processes. role to your counselor.	

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7.	Identify some huma	an activities that can alter the environment, and describe how they affect the climate and people.
8.	Describe how the tarea in between.	ilt of Earth's axis helps determine the climate of a region near the equator, near the poles, and across the
	Near the equator	
	•	
	Near the poles	
	·	
	Across the area	
	in between	

9.	Do ONE	of the following:								
a. Make one of the following instruments: wind vane, anemometer, rain gauge, or hygrometer.						er.				
A. Make one of the following instruments: wind vane, anemometer, rain gauge, or nygrometer. Keep a daily weather log for 1 week using information from this instrument as well as from other sources such local radio and television stations, NOAA Weather Radio All Hazards, and Internet sources (with your parent's permission). Record the following information at the same time every day: wind direction and speed, tempera precipitation, and types of clouds. Be sure to make a note of any morning dew or frost. In the log, also list the weather forecasts from radio or television at the same time each day and show how the weather really turned						es such as parent's emperature, polist the				
			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
		Time								
		Wind Speed								
		Direction								
		Temperature								
		Precipitation								
		Cloud Types								
		Dew or Frost								
		Forecasted								
		Actual								
	_ b.	Visit a National Weather Service office or talk with a local radio or television weathercaster, private meteorologist, local agricultural extension service officer, or university meteorology instructor. Date: Location: Person's name:								
		Find out what ty	pe of weather	is most dange	rous or damag	ing to your con	nmunity.			
		Determine how	covere weathe	r and flood wa	ernings roach t	ao homos in vo	ur community			
		Determine now	severe weathe	i and nood wa	ariings reacir ii	ie nomes in yo	our community.	•		

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10.	Give a talk of at le	east 5 minutes to a group (such as your unit or a Cub Scout pack) explaining the outdoor safety rules in the event floods, and tornadoes. Before your talk, share your outline with your counselor for approval.
11.	Find out about a v	weather-related career opportunity that interests you.
	Discuss with and required of such a	explain to your counselor what training and education are required for such a position, and the responsibilities a position.
	Training:	
	Education:	
	Responsibilities:	

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When working on merit badges, 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-meritbadges.pdf.

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

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