## WEATHER MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Weather merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/weather/

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Name:	_
<b>REQUIREMENT 1:</b> Define meteorology. Explain what weather is and what climate is. Discuss how the weather affe farmers, sailors, aviators, and the outdoor construction industry. Tell why weather forecasts are important to each of the groups.	cts
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<b>REQUIREMENT 2:</b> Name five dangerous weather-related conditions. Give the safety rules for each when outdoors a explain the difference between a severe weather watch and a warning. Discuss the safety rules with your family.	nd
Discuss the safety fales with your farmly.	
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Parent or Guardian Name	Phone	
		—
Parent or Guardian Signature	Date	Discussed Safety Rules
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<b>REQUIREMENT 3:</b> 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 location and movements of the cold and warm air, the frontal slope, the location and types of clouds associated with each type of frontand the location of precipitation.
REQUIREMENT 4: Tell what causes wind, why it rains, and how lightning and hail are formed.
<b>REQUIREMENT 5:</b> Identify and describe clouds in the low, middle, and upper levels of the atmosphere. Relate these t specific types of weather.  Low levels
Low levels
Middle levels
Upper levels

<b>REQUIREMENT</b> counselor.	6:	Draw	ı a	diag	ram	of	the	wate	er c	ycle	and	labe	el its	maj	or p	oroces	sses.	Expla	in t	he	water	cycle	e to	your
REQUIREMENT climate and peo	7:	Ident	tify	som	ne hi	um	an a	activit	ies	tha	t car	n alt	er th	ne en	viro	nmer	nt, aı	nd des	scril	be l	now t	hey a	ffec	t the
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<b>REQUIREMENT 8:</b> Describe how the tilt of Earth's axis helps determine the climate of a region near the equator, near the poles, and across the area in between.
REQUIREMENT 9: Do ONE of the following:
Make one of the following instruments: wind vane, anemometer, rain gauge, hygrometer. Keep a daily weather log for one week using information from this instrument as well as from other sources such as 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, temperature, 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 out.
OR
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. Find out what type of weather is most dangerous or damaging to your community. Determine how severe weather and flood warnings reach the homes in your community.
<b>REQUIREMENT 10:</b> Give a talk of at least five minutes to a group (such as your unit or a Cub Scout pack) explaining the outdoor safety rules in the event of lightning, flash floods, and tornadoes. Before your talk, share your outline with your counselor for approval.
Shared outline with counselor
Gave a talk of at least five minutes

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