



#### SGOUTMASTER BUCKY

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Weather merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

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

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

REQUIREMENT	10 REQL	JIRES CC	UNSELOF	R APPROVAL.
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REQUIREMENT 1:	Define meteorology.
Notes:	
REQUIREMENT 1:	Explain what weather is.
Notes:	
REQUIREMENT 1:	Explain what climate is.
Notes:	





REQUIREMENT 1:	Discuss how the weather affects farmers, sailors, aviators, and the outdoor construction industry. Tell why weather forecasts are important to each of these groups.
FARMERS:	
How weather affects this	group of people:
How weather forecasts a	are important to this group of people:
SAILORS:	
How weather affects this	group of people:
How weather forecasts a	are important to this group of people:





#### AVIATORS:

How weather affects this group of people:
How weather forecasts are important to this group of people:
CONSTRUCTION INDUSTRY:
How weather affects this group of people:
Tiow weather affects this group of people.
How weather forecasts are important to this group of people:
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REQUIREMENT 2:	Name five dangerous weather-related conditions. Give The safety rules for each when outdoors.
DANGEROUS WEATHER	CONDITION #1:
Name:	
Safety Rules when Outd	oors:
DANGEROUS WEATHER	CONDITION #2:
Name:	
Safety Rules when Outd	oors:
DANGEROUS WEATHER	CONDITION #3:
Name:	
Safety Rules when Outd	oors:







DANGEROUS WEATHER C	CONDITION #4:
Name:	
Safety Rules when Outdo	pors:
DANGEROUS WEATHER C	CONDITION #5:
Name:	
Safety Rules when Outdo	pors:
REQUIREMENT 2:	Explain the difference between a severe weather watch and a warning. Discuss the safety rules with your family.
Notes:	
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REQUIREMENT 3:	Explain the difference between high and low pressure systems in the atmosphere.  Tell which is related to good and to poor weather.
Notes:	
DECLUDEMENT 2.	Draw areas and to a sald from the survey from the boundary and
REQUIREMENT 3:	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 front, and the location of precipitation.
Consider us	sing the Weather Merit Badge Pamphlet for preparation assistance
This requ	uirement must be reviewed with your merit badge counselor.
	BE PREPARED!





REQUIREMENT 4:	Tell what causes wind.
Notes:	
REQUIREMENT 4:	Tell why it rains.
Notes:	
DECLUDEMENT 4.	Tall how lightning in formed
REQUIREMENT 4:	Tell how lightning is formed.
REQUIREMENT 4: Notes:	Tell how lightning is formed.
	Tell how lightning is formed.
Notes:	
Notes:  REQUIREMENT 4:	Tell how lightning is formed.  Tell how hail is formed.
Notes:	
Notes:  REQUIREMENT 4:	







REQUIREMENT 5:	Identify and describe clouds in the low, middle, and upper levels of the atmosphere. Relate these to specific types of weather.
LOW LEVEL ATMOSPHER	E CLOUDS:
Identify and Describe:	
Weather these type of clo	ouds are related with:
MIDDLE LEVEL ATMOSPH	IERE CLOUDS:
Identify and Describe:	
Weather these type of clo	ouds are related with:



				DOLL Y
UPPER LEVEL ATMOSPHERE	CLOUDS:			
Identify and Describe:				
Weather these type of cloud	s are related with:			
REQUIREMENT 6: Dra	aw a diagram of the water cy cle to your counselor.	ycle and label its m	ajor processe	es. Explain the water
			101	







Draw Your Diagram Here:	





REQUIREMENT 7:	Identify some human activities that can alter the environment, and describe how they affect the climate and people.
Notes:	
REQUIREMENT 8:	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.





#### DO ONE OF THE FOLLOWING (9A or 9B) FOR REQUIREMENT 9

**REQUIREMENT 9a:** Make one of the following instruments: wind vane, anemometer, rain gauge,

hygrometer.

Consider using the Weather Merit Badge Pamphlet for preparation assistance Be sure to bring your instrument with you to share with your merit badge counselor This requirement must be reviewed with your merit badge counselor.

#### **BE PREPARED!**

**REQUIREMENT 9a:** 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 or quardian'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.

	Be sure to bring your logs with you to share with your merit badge counselor  This requirement must be reviewed with your merit badge counselor.  BE PREPARED!	
Notes:		





DAY #1:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your insti	rument:			1	
WEATHER FORECAST #1 DAY 1:		1 P 1 P			
Source (radio, television, inter	rnet, other: ind	cluding static	on name or c	call letters) and time of report:	
W H f 4.					
Weather forecast:					
WEATHER FORECAST #2 DAY 1:					
Source (radio, television, inter	rnet, other: ind	cluding statio	n name or c	call letters) and time of report:	
Weather forecast:					





DAY #2:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your insti	rument:			1	
WEATHER FORECAST #1 DAY 2:					
Source (radio, television, inter	rnet, other: ind	cluding static	on name or c	call letters) and time of report:	
10/					
Weather forecast:					
WEATHER FORECAST #2 DAY 2:					
Source (radio, television, inter	rnet, other: ind	cluding statio	on name or c	call letters) and time of report:	
Weather forecast:					





DAY #3:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your insti	rument:			1	
WEATHER FORECAST #1 DAY 3:		1 1 4 4			
Source (radio, television, inter	rnet, other: ind	cluding static	on name or c	call letters) and time of report:	
W H f 4.					
Weather forecast:					
WEATHER FORECAST #2 DAY 3:					
Source (radio, television, inter	rnet, other: ind	cluding statio	n name or c	call letters) and time of report:	
Weather forecast:					





DAY #4:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your instr	rument:				
,					
WEATHER FORECAST #1 DAY 4:					
Source (radio, television, inter	net, other: ind	cluding statio	on name or c	all letters) and time of report:	
Weather forecast:					
vveatilei loiecast.					
Source (radio, television, inter	net other inc	cludina static	n name or o	all letters) and time of report:	
Source (radio, television, inter	net, other. inc	Juding Static	in name or c	all letters) and time of report.	
Weather forecast:					





DAY #5:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your insti	rument:			1	
WEATHER FORECAST #1 DAY 5:					
Source (radio, television, inter	rnet, other: ind	cluding static	on name or c	call letters) and time of report:	
W H f 4.					
Weather forecast:					
WEATHER FORECAST #2 DAY 5:					
Source (radio, television, inter	rnet, other: ind	cluding statio	on name or c	call letters) and time of report:	
Weather forecast:					





DAY #6:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your insti	rument:			1	
WEATHER FORECAST #1 DAY 6:		1 1 4 4			
Source (radio, television, inter	rnet, other: ind	cluding static	on name or c	call letters) and time of report:	
W H f 4.					
Weather forecast:					
WEATHER FORECAST #2 DAY 6:					
Source (radio, television, inter	rnet, other: ind	cluding statio	n name or c	call letters) and time of report:	
Weather forecast:					





DAY #7:					
Day, Date, and Time	Wind Direction and Speed	Temperature	Precipitation	Types of Clouds	Morning Dew / Frost
Measurements from your instr	rument:				
·					
WEATHER FORECAST #1 DAY 7:		1 1 1 1 1			
Source (radio, television, inter	net, other: inc	cluding station	on name or c	all letters) and time of report:	
Weather forecast:					
weather forecast:					
WEATHER FORECAST #2 DAY 7:					
Source (radio, television, inter	rnet, other: ind	cluding station	on name or c	all letters) and time of report:	
Weather forecast:					





REQUIREMENT 9b:	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.
National Weather Service	e Office or Local Professional you visited or spoke with:
Date and Location of Vis	
REQUIREMENT 9b:	Find out what type of weather is most dangerous or damaging to your community.
Notes:	
REQUIREMENT 9b:	Determine how severe weather and flood warnings reach the homes in your community.
Notes:	





REQUIREMENT 10:	explaining	of at least five minutes to a group the outdoor safety rules in the Before your talk, share your outli	e event of ligh	ntning, flash floods, and
Outline:			•	* *
COUNSELOR APPROVAL: IS	REQUIRED.			
Counselor's Name			Phone or Email	
Counselor's Signature			Date	approved
Group you will speak to:				
Date and Location of Pre	esentation:			





REQUIREMENT 11:	and explain to your counselor what training and education are required for such a position, and the responsibilities required of such a position.
Selected Weather-Relate	ed Career Opportunity:
Training Requirements:	
Education Requirements	
Responsibility Requirement	ents: