

## Weather

Merit Badge Workbook

This workbook is not required but is designed to help you with this merit badge. No one can add or subtract from the Boy Scout Requirements #33215. Use page backs & add pages as needed. Please send comments to: craig@craiglincoln.com. Requirements revised: 1999, Workbook updated: January 2004.

Scout's Name:	Unit:
	Counselor's Ph #:
1) Define meteorology.	
Explain how the weather affects farmers,	
sailors,	
aviators,	
and the cutdown construction industry	
and the outdoors construction industry.	
Tell why weather forecasts are important to each of the	nese aroups:
farmers,	
sailors,	
aviators,	
and the outdoors construction industry.	
2) Name five dangerous weather-related conditions. C	Give the safety rules for each when outdoors
1)	
Safety Rules:	
2)	
Safety Rules:	
3)	
Safety Rules:	
4)	
4) Safety Rules:	
Jaioty Rules.	

Weather p. 2	Merit Badge Workbook	Scout's Name:
5)		
Safety Rules:		
and explain the difference bet Warning:	ween a severe weather watch and a warning	
	old front and a warm front showing the locat and types of clouds associated with the fro	tion and movements of the cold and warm air, nt, and the location of rain.
Tell the differences between a	cold front and a warm front.	

Weather p. 3	Merit Badge Workbook	Scout's Name:
4) Tell what causes wind, _		
why it rains,		
and how lightning and hail a	re formed.	
Explain the difference betwe	en high- and low-pressure systems in the a	tmosphere
and tell which is related to g	ood	
and poor weather		
<ol><li>Identify and describe clouweather.</li></ol>	ds in the low, middle, and upper levels of the	ne atmosphere. Relate these to specific types of
Low Atmosphere Clouds:		
Type of weather:		
Middle Atmosphere Clouds:		
Upper Atmosphere Clouds: _		
Type of weather:		
6) Draw a diagram of the wat	er cycle and label its major processes. Exp	plain the water cycle to your counselor.

Weather p. 4		N	Merit Badge Wor	kbook	Scout's Name	e:	
7) Define acid r	ain						
Identify which I	human activitie	es pollute the at	mosphere				
as well as the e	effects such po	llution can have	e on people				
8) Do ONE of th	ne following:						
A) Make one of	the following ins	struments: 🗌 wir	nd vane, 🗌 aner	mometer, 🔲 rair	n gauge, 🔲 or hy	grometer.	
television station direction and spe	ns or NOAA We eed, temperatur	ather Radio. The e, precipitation, a	e following inform and types of clou	nation should be lds. Be sure to r	Il as from other so recorded at the s nake a note of an day and show ho	ame time every on the state of	day: wind r frost. In the
Information	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							
- OR -							
•		vice office or talk fice, or university			eathercaster, priv	ate meteorologis	t, local
Date:	Loc	ation:		_ Person's nam	ne:		
Find out what ty	pe of weather is	most dangerous	or damaging to	your community			
Determine how s	sever weather a	nd flood warning	s reach the hom	es in your comm	unity		

Weather p. 5	Merit Badge Workbook	Scout's Name:
9) Do ONE of the following:		
A) Give a talk of more than 5 minut	es to your unit explaining the camping safe	ty rules in the event of
lightning,		
flash floods,		
and tornadoes.		
Before your talk show your outline	to your counselor for approval. (Attach oth	ner nages as needed )
,		5 minutes about the articles to your unit. Before
	counselor for approval. (Attach other page	
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