Weather Merit Badge Worksheet

Hiller Aviation Museum

This worksheet is not required but is designed to help you complete the Aviation Merit Badge requirements. No one can add to or subtract from the Boy Scout Requirements #33215. Requirements revised 2018. Worksheet revised February 2021.

The Hiller Aviation Museum program addresses sufficient requirements to complete the Weather Merit Badge except for Requirements 2 and 9A. Only those requirements included in the Hiller Aviation Museum program are included. Requirement 9A must be met through home study and its separate observation sheet approved by a Merit Badge Counselor to qualify for the Weather Merit Badge.

Sc	cout's Name:	Unit:				
Co	ounselor:	Hiller Aviation Museum (650) 654-0200				
1.	Define meteorology. Explain the difference between weather and climate, and how weather affects agriculture, maritime transport, aviation and outdoor construction. Describe the value of weather forecasts to each of these groups.					

Identify	5 dangerous weather-related conditions. What safety rules apply to each?
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	the difference between severe weather watches and warnings, and discuss the
relevant	safety rules.
	the difference between high and low pressure systems, and the relationship of each poor weather.
to rail ai	

Low Pressure:					
	on of a cold front and a war ment, front shape, cloud ty	rm front labeled to show air tempes and precipitation.	nperature,		
	Cold Front	Warm Fro	nt		
ell what causes wind, why it rains, and how lightning and hail are formed.					
Wind:					
Rain:					
ightning:					

Ident weat	tify high, middle, ther.	low and vertically develop	ed clouds,	and relate to	specific types	of
Diag	ram the water cyc	le and label its major proc	esses.		_	
				5		2
ldent affec	tify some human a ct the climate and	ctivities that can alter the people.	environm	ent, and desc	ribe how they	
		of Earth's axis helps detern is, and across the area in b		imate of a reg	gion near the	
				23.5	September 23 Autumnal Equinox	
					Autumid Equitox	

9.	PART A: Build a weather station with a working wind direction indicator. Record weather data daily for seven consecutive days and compare to data acquired from local television, radio or online sources using the separate observation sheet.
10.	Prepare and present a talk of at least 5 minutes to a group of Scouts explaining the outdoor safety rules in the event of lightning, flash floods, and tornadoes.
11.	Find out about a weather-related career opportunity that interests you. Discuss the training, education and responsibilities required for this position.

Scout Presentations Outdoor Weather Safety + Weather Careers (11 + 10)

Prepare a short presentation to your counselor and other Scouts in your breakout group about weather safety and a career in weather that you may be interested in. Weather hazards will be assigned by your counselor, weather careers may be selected by the Scout.

	Outdoor Safety	
My Hazard (Circle):	 Thunderstorm Flash Flood Lightning 	4. Tornadoes5. Icing/Ice Storms6. Hypothermia
My Assignment (Circle):	A. Describe Hazard	B. Safety Rules
	Careers in Weather	
Career of Interest (Circle):	 Weather Forecaster Broadcast Meteorologist Climatologist 	4. FAA Weather Briefer5. Weather Researcher6. Storm Chaser
What advantion and training are	7. Other:	2-منفرال بأمنا مطفعة
	needed for this position, and what a	re the Job duties: