

Weather Merit Badge Worksheet



Requirement 1

List the composition of air, note whether they are constant or variable element, and their function, if any.

Element	Function
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
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• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____
• _____	<input type="checkbox"/> Constant <input type="checkbox"/> Variable _____

Requirement 2

Tell how the following are formed:

Moisture _____

Fog _____

Hail _____

Rain _____

Snow _____

Requirement 3

Explain the electrical and optical phenomena in the air:

Rainbow _____

Mirage _____

Looming _____

Halos _____

Lightning _____

Thunder _____

Describe to your counselor occurrence of these phenomena you've seen for yourself

Requirement 4

What is the following equipment used for and how?

Barometer	Used for _____
	How _____
Thermometer	Used for _____
	How _____
Anemometer	Used for _____
	How _____
Hygrometer	Used for _____
	How _____
Rain Gauge	Used for _____
	How _____

- Make a simple weather vane.
- Be conversant with storm/weather signals.

Requirement 5

Do one:

- On the back of this page: Write a simple statement on the climate in the Philippines.

- OR -

- On the back of this page: Tell the value of weather prediction.
- Write a brief account of the Philippine Atmospheric Geophysical and Astronomical Services Administration (PAGASA) – stating what daily, weekly, or monthly publication are prepared and distributed by it.
- Be able to interpret the charts and graphs contained in PAGASA publications.

- OR -

- Using the table on the next page, keep a daily record for a month of the following: dew or fog in the morning; at a specific hour each day, the direction and force of the wind; the temperature and kinds of clouds (if any) in the sky.

Day	Time Morning	Dew or Fog	Time of Day	Wind Direction	Wind Speed	Temperature	Clouds
1							
2							
3							
4							
5							
6							
7							
8							
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28							
29							
30							
31							

Requirement 6

Places where danger from lightning is great:

Places where danger from lightning is less:

Requirement 7

Using the map of Asia below map the trajectories or paths of typhoons in the Philippines



What is the cause and origin of typhoons?
