



Royal Rangers

Merit Requirements: **Red-Bordered Merit**

WEATHER

1. Define the following terms: meteorology, weather, temperature, air pressure, humidity.
2. Describe the function of the National Weather Service.
3. Describe how clouds are formed.
4. Cumulus, cirrus, and stratus are three main types of clouds. Give the following information for each type:
 - a. Description
 - b. Where it's found in the atmosphere
 - c. What type of weather it predicts
5. Draw and label the water cycle diagram.
6. Match the names of the following weather conditions with their pictures: dew, fog, frost, hail, rain, sleet, and snow.
7. Keep a daily record of the weather for two weeks.
8. Write down safety rules to remember if you find yourself in each of these kinds of storms:
 - a. Blizzard
 - b. Flash flood
 - c. Hurricane
 - d. Lightning and thunderstorm
 - e. Tornado
9. Explain briefly what causes rainbows, lightning, and thunder.
10. Demonstrate your ability to read a thermometer and a rain gauge. Make a barometer, hygrometer, rain gauge, or weather vane, and show your leader.
11. Define a severe weather "watch" and a severe weather "warning."
12. Write three Scripture references regarding weather.