



\_\_\_\_\_ **Pathfinder's Name**

## **Weather**

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1. Explain how each of the following is formed:
- Fog \_\_\_\_\_  
\_\_\_\_\_  
Sleet \_\_\_\_\_  
\_\_\_\_\_  
Rain \_\_\_\_\_  
\_\_\_\_\_  
Hail \_\_\_\_\_  
\_\_\_\_\_  
Dew \_\_\_\_\_  
\_\_\_\_\_  
Frost \_\_\_\_\_  
\_\_\_\_\_  
Snow \_\_\_\_\_  
\_\_\_\_\_
2. Identify either in the sky or from pictures the following types of clouds: cirrus, cumulus, stratus, nimbus. What kind of weather is associated with each.
3. Explain the action of a mercury or spirit thermometer, a mercury barometer, an aneroid barometer, and a rain gauge.
- Mercury or spirit thermometer \_\_\_\_\_  
\_\_\_\_\_
- Mercury barometer \_\_\_\_\_  
\_\_\_\_\_
- Aneroid barometer \_\_\_\_\_  
\_\_\_\_\_

Rain gauge \_\_\_\_\_  
\_\_\_\_\_

- ❑ 4. Why is it possible to be rainy on one side of the mountain range and dry on the other? Give an illustration for your country or region.

\_\_\_\_\_  
\_\_\_\_\_

Why is it cooler and more moist in the mountains than in the lowlands?

\_\_\_\_\_  
\_\_\_\_\_

From which direction do rain and clear weather usually come in your locality?

\_\_\_\_\_  
\_\_\_\_\_

- ❑ 5. Show with the help of a diagram how the earth's relationship to the sun produces the seasons.

- ❑ 6. What causes lightning and thunder?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What different kinds of lightning are there?

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7. Show with the help of a diagram what a convection is.

What is its relation to winds?

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8. Explain how radar, satellites, and computers are used in weather forecasting.

Radar \_\_\_\_\_

Satellites \_\_\_\_\_

Computers \_\_\_\_\_

9. Tell how the following can affect our weather:

Jet stream \_\_\_\_\_

Volcano eruption \_\_\_\_\_

- 10. Make a drawing showing the water cycle in weather.
- 11. Make a simple wind vane or rain gauge.
- 12. Keep a weather chart for one week and record readings at 12-hour intervals. Include the following: (Complete Chart #1)
  - Temperature
  - Moisture (dew, fog, rain, frost, or snow)
  - Cloud formation
  - Wind direction

Date completed \_\_\_\_\_

Instructor's Signature \_\_\_\_\_