

Name: _____

Topic 7 Review

Earth Science

Date: _____

Part I: The Weather Cycler

Study Activity I – Weather Maps

Section A

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Section B

1. _____
2. _____
3. _____

Section C

1. _____
2. _____

Study Activity II – Weather in Highs

Section A

1. _____
2. _____

Section B

1. _____
2. _____
3. _____

Section C

1. _____
2. _____
3. _____

Section D

1. _____
2. _____
3. _____

Study Activity III – Weather Fronts

Section A

1. _____
2. _____
3. _____

Section B

1. _____
2. _____
3. _____

Section C

1. _____
2. _____
3. _____

Section D

1. _____
2. _____
3. _____

Study Activity IV – Weather in Lows

Section A

1. _____
2. _____
3. _____

Section B

1. _____
2. _____

Section C

1. _____
2. _____
3. _____

Section D

1. _____
2. _____
3. _____

Study Activity V – Forecasting Weather

Section A

1. _____
2. _____
3. _____

Section B

1. _____
2. _____
3. _____

Section C

1. _____
2. _____

Section D

1. _____
2. _____

Study Activity VI – Interpreting Weather on your own

Section A

1. _____
2. _____
3. _____

Section B

1. _____
2. _____

Section C

1. _____
2. _____
3. _____

Section D

1. _____
2. _____

Name: _____

Earth Science

Part II: Weather Model

Date: _____

The following questions are based on present (existing) weather conditions as shown on the surface map portion of the three dimensional weather model.

1. What is the present sky condition in vicinity of the following locations?
 - a. Madison, Wisconsin _____
 - b. Toledo, Ohio _____
2. What is the present temperature in the vicinity of the following locations?
 - a. Washington D.C. _____
 - b. St. Louis, Missouri _____
3. What is the present wind direction and speed in the vicinity of the following locations?
 - a. Bowling Green, Kentucky _____
 - b. Raleigh, N. Carolina _____
4. What is the present precipitation in the vicinity of the following locations?
 - a. Pittsburgh, Pennsylvania _____
 - b. Boston, Massachusetts _____
5. What is the present dew point temperature in the vicinity of the following locations?
 - a. Charleston, W. Virginia _____
 - b. Toledo, Ohio _____
6. What is the present barometric pressure in the vicinity of the following locations?
 - a. Buffalo, New York _____
 - b. Atlanta, Georgia _____

The following questions are based on the existing conditions as shown by the surface map and the horizontal and vertical structure of the three dimensional weather model.

1. What is the typical type of precipitation associated with a...
Cold Front _____
Warm Front _____
2. What is causing the rain over Pennsylvania, Ohio, and New York? _____
3. What is causing the showers and thunderstorms over Kentucky? _____
4. What causes the cold front to “bulge” aloft while the warm front has a more shallow slope? _____

5. What happens to the barometric pressure as you go aloft? _____
6. Make a forecast for Charleston, West Virginia for the next 6 hours. _____
