

Unit : Handout :
4 : 11

Lessons 3-6 Review

Purpose: Review the main ideas from the first investigations of the unit

Guiding Questions: No guiding question for this sheet.

Directions. Write a response to the following questions. Cite evidence as needed to support your answer.

1. What is the difference between weather and climate?

2. What is the major source of earth's heat?

3. Why doesn't this heat easily escape from earth's atmosphere?

4. What evidence do we have that earth's surfaces do not heat/cool at the same rate?

5. How do the surfaces of the earth affect the air above it? What evidence do you have to support this?

6. How does a warm/hot surface affect the movement of the air above it? What evidence do you have to support this?

7. How does a cool/cold surface affect the movement of the air above it? What evidence do you have to support this?

8. What happens when warm/hot air masses and cool/cold air masses meet? What evidence do you have to support this?

9. On the wind weather map we examine each day, how do we know where areas of low pressure are found? High pressure? Weather fronts?

10. Look at the drawing below. Assume that the water is warm and the land is cool.

- Where is the low pressure?
- Where is the high pressure?
- Where is the air the most dense?
- Where is the air the least dense?
- Where will the air move to and from? Why?

