

Air Pressure and Wind

Name _____ Block _____

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1. What is **air pressure**?

2. What is a **barometer**?

3. What are the two main reasons air pressure changes?



4. Warm air is _____ than cold air because _____

5. Warm air contains more water vapor, and the more water vapor the air contains the _____ it is.

6. What will the weather be like when air pressure is falling?

7. What will the weather be like when air pressure is rising?

8. Wind moves from _____ to _____ pressure.

9. A north wind means it is blowing from the north. What does a southwesterly wind mean?

10. When does a **sea breeze** occur?

Time of Day:

Land

Sea

Temperature:

Pressure:

11. When does a **land breeze** occur?

Time of Day:

Land

Sea

Temperature:

Pressure:

12. Describe mountain and valley winds.

13. The arrows show how air moves during the day. Cool night temperatures affect air pressure. Air moves in the **opposite** direction at night. Draw arrows on the bottom diagrams to show how the air moves at night.

Insert sketches of Valley and Mountain Breezes

Insert sketches of Land and Sea Breezes

14. What is the **coriolis effect**?

15. What does the Coriolis Effect do to a wind in the Northern Hemisphere?