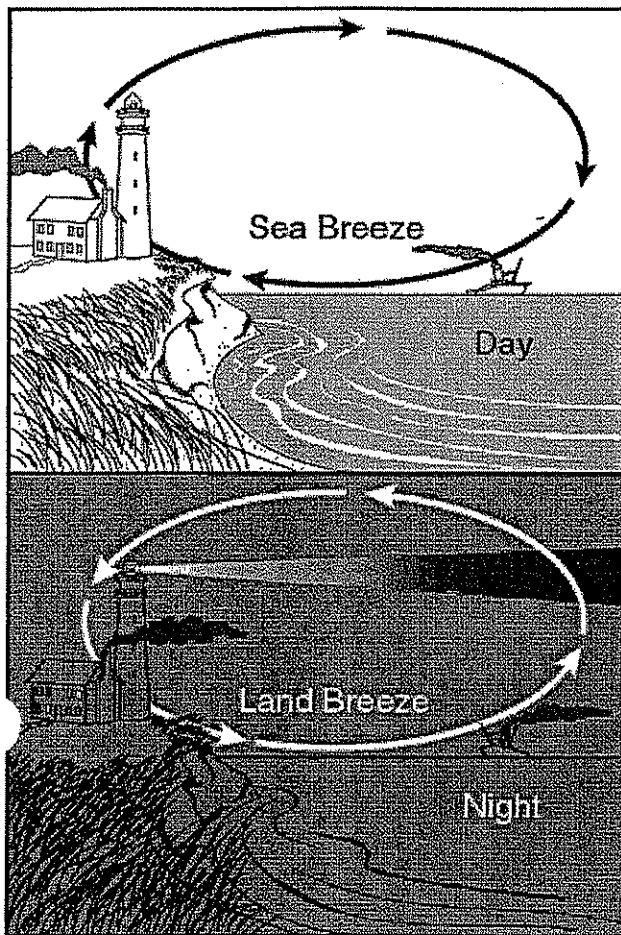


## Homework – Sea and Land Breezes

Below is a question from a Regents test. Answer the questions on the right about the Regents question.



**What would explain the change in the direction of air movement from daytime to night?**

- F Water is always cooler than land.
- G Land temperature changes more quickly than water temperature.
- H Cool air rises more quickly than warm air.
- J The sun warms the moist ocean air more than the dry land air.

1. Circle the correct term in the parentheses that correctly completes the sentence.  
Warm air ( rises / sinks ) and cool air ( rises / sinks ).
2. On the Sea Breeze part of the diagram put a large 'L' where the pressure would be the lowest.
3. On the Sea Breeze part of the diagram put a large 'H' where the pressure would be the highest.
4. On the Sea Breeze part of the diagram write the word 'cooler' on which ever is cooler, the land or the water.
5. On the Sea Breeze part of the diagram write the word 'warmer' on which ever is warmer, the land or the water.
6. On the Land Breeze part of the diagram put a large 'L' where the pressure would be the lowest.
7. On the Land Breeze part of the diagram put a large 'H' where the pressure would be the highest.
8. On the Land Breeze part of the diagram write the word 'cooler' on which ever is cooler, the land or the water.
9. On the Land Breeze part of the diagram write the word 'warmer' on which ever is warmer, the land or the water.
10. Consider answer choice 'F'. Is the water always cooler than land?
11. Consider answer choice 'G'. Using your textbook as a reference, what holds heat the longest, the land or the ocean?
12. Look at answer choice 'H'. Using your answer to question #1 above, is 'H' possible or impossible?
13. Look at answer choice 'J'. Using your textbook or common sense, does the sun heat air differently depending on whether that air is over land or water?
14. Answer the Regents question.

**TRUE OR FALSE** Write T on the line next to the number if the sentence is true.  
Write F if the sentence is false.

1. \_\_\_\_\_ Sea breezes and land breezes are planetary winds.
2. \_\_\_\_\_ A sea breeze is a daytime breeze.
3. \_\_\_\_\_ A land breeze is an evening breeze.
4. \_\_\_\_\_ A land breeze comes from the sea.
5. \_\_\_\_\_ Land heats up faster than water.
6. \_\_\_\_\_ Land cools off faster than water.
7. \_\_\_\_\_ A monsoon is like a huge shore breeze.
8. \_\_\_\_\_ A monsoon covers a small area.
9. \_\_\_\_\_ Uneven heating and cooling of water and land cause monsoons.
10. \_\_\_\_\_ Monsoons happen all over the world.

### REACHING OUT

Sometimes it gets cool extra fast at night. Would this make a land breeze blow slower or faster? Why? \_\_\_\_\_

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