

Assignment 1: Describe how Florida's morning sea breezes start.

Step 1. Arrange these sea breeze related events in sequential order starting with what is first or most fundamental or controlling.

Scrambled Order	Correct Order
WARMER AIR RISES OVER LAND ON SHORE SEA BREEZES FLOW (east & west) WATER'S HIGH SPECIFIC HEAT NARROW PENINSULA LAND WARMS FASTER IN AM	

Step 2. Debate the sequence with classmates.

Final Correct Order

Step 3. If you were to hand these events to a friend unfamiliar with weather and ecosystems, I doubt the events alone would make much sense. So, write a single sentence that describes how the morning sea breeze occurs. Scientists would call this description the *mechanics* of the sea breeze.

Answer:

Correct Order

NARROW PENINSULA
WATER'S HIGH SPECIFIC HEAT
LAND WARMS FASTER IN AM
WARMER AIR RISES OVER LAND
ON SHORE SEA BREEZES FLOW (east & west)

Assignment 2. Describe how morning sea breezes affect Florida's fire adapted terrestrial ecosystems.

Step 1. Put the scrambled events associated with the sea breeze-thunderstorm cycle in sequential order. Start with the first event, or what is most fundamental or controlling. Then proceed step by step through the cycle.

Scrambled Order	Correct Order
THUNDERSTORMS WATER'S HIGH SPECIFIC HEAT LAND WARMS FASTER IN AM WARMER AIR RISES OVER LAND NATURAL FIRES ON SHORE SEA BREEZES FLOW (east & west) SEA BREEZES MEET OVERLAND NARROW PINENSULA CONVECTIVE AIR FLOW OCCURS CLOUDS CONDENSE LIGHTENING FIRE ADAPTED ECOSYSTEMS WARM MOIST AIR MOVES ONSHORE	

Step 2. Debate the order with classmates.

Final Correct Order

Step 3. *Arrange the correctly sequenced events in outline form and write two to three paragraphs that describe how morning sea breezes affect Florida's fire adapted terrestrial ecosystems.*