

Land and sea breeze worksheet pdf

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Report this resource to let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch. Have you tried walking barefoot on sand during noon? You can barely touch the sand because it is scorching hot. When such a thing happens, you may need to dip your feet in a lake nearby. Although the sun warms up both water and sand, the pace at which water absorbs heat is not the same as sand. This difference in heating is the basis for the formation of land and sea breeze. What is Sea Breeze? Before learning about the difference between land breeze and sea breeze, let us learn a bit more about what a sea breeze is. Sea breeze blows during the day. The sun heats up both the land and sea at this time. However, the land heats up sooner, which causes the air over land to become hot faster than its counterpart above the sea. This hot air expands and rises, causing a low-pressure system. At the same time, air over the sea remains cooler since water can retain its temperature more than the land. This cooler air is heavy and quickly flows toward the low-pressure region on land. This flow of cooler air from sea to land during the day is known as a sea breeze. What is Land Breeze? A land breeze blows during the night. The process explained above is reversed when night falls. Land heats up quickly but also cools quickly. Thus, after the sun sets, sea air remains hotter for a longer duration. This leads to low-pressure creation over this sea. Land air being cooler, it quickly flows to replace the lighter air over the sea.

After understanding the basics, one can quickly assess the difference between land breeze and sea breeze. Read on to help you with this distinction.

Difference between Land and Sea Breeze

Several factors distinguish between land breeze and sea breeze. Assess the table below for further knowledge regarding this difference.

Land Breeze	Sea Breeze
Land breeze tends to be deep.	Sea breeze tends to be shallow.
Land breeze is comparatively shallower when compared to a sea breeze.	Sea breeze reduces the temperature.
Land breeze generally has no effect on temperature.	A sea breeze is more prevalent during the summer and spring seasons.
A land breeze is more common during winters and autumns.	The nights tend to stay cooler at such times.
Land breeze flows much slower, with top speeds ranging up to 8 knots.	Sea breeze tends to be faster, flowing at speeds of up to 20 knots.
Land breeze carries increased moisture, which it absorbs while blowing over a water body.	Land breeze is drier since it has no opportunity to absorb water from any source.
Land breeze moves from land toward a water body, generally a sea or ocean.	Lastly, the sea breeze moves from the sea towards a land body.

Quick Question -Q. Why do land and sea breeze occur? Ans. Land and sea breeze occur due to the difference in the heat absorption and retention capacity of land and water. If water and land retained heat at the same pace, such winds would not occur.

Temperature Difference Inland and Near the Sea

Now that you can differentiate between land and sea breeze, you can also understand why locations near seas tend to experience limited temperature variance throughout the year. This means that such locations usually witness constant temperature. In case of inland locations, the temperature difference is more prominent. During the day, temperatures soar in such inland areas. However, as night falls, these places tend to experience cooler weather. Interesting Note You can perceive clouds from a coastal area at night, which dissipates in the morning. This happens due to this flow of breeze. Our Vedantu app can further accelerate your understanding of the difference between land breeze and sea breeze. With expert teaching staff, we can give you an edge over others, ensuring better learning and grades.

sea breeze/land breeze diagram answer key land and sea breeze pdf land and sea breeze drawing activity review worksheet 1 heating of the land and water answer key would this daytime breeze be warm or cool would this nighttime breeze be warm or cool in the diagrams, what are the circular motions of air called Transcribed Image Text Name: Sea Breeze Year and Section: Teacher: Warm air THE BIG IDEA: A sea breeze is the passage of waves from a wider body of water, such as the oceans or Cool sea breeze seas. This typically happens during the summer and spring seasons, when the temperature differential between land and surrounding bodies of water, such Land warmer Sea cooler Day Land Breeze as the ocean or sea, is greater. Worksheet 1: Sea Breeze and Land Breeze Direction: A. Write T if the statement is true. Cool land breeze If false, change the underlined word or phrase to make it correct. Warm air 1. During the day, both land and sea are heated by the sun. 2. The land heats up faster Land cooler than the sea. Night Sea warmer 3. The moving air or wind from the sea is called a sea breeze. 4. During nighttime, the land and sea both cool down. 5. The land cools down faster than the sea during nighttime. 6. The moving air or wind from the land is called land breeze. 7 Land breeze and sea breezes takes place near large bodies of water. 8. Water has a higher specific heat capacity than the land. 9. Cold air moves toward the direction where warm air is rising. 10. Different locations warm up or cool down differently. To summarize what you have learned, complete the following sentences. Choose your answers from the word box. All wind is caused by the, pressure to areas of low pressure. The two main types of local winds are. of the earth's surface. Winds travel from areas of high and when the land heats quicker than the A sea breeze occurs during- ocean. This causes the air over the land to heat up also, causing it to become and rise. At the same time, the air over the water is cooler and denser. This cooler, denser air rushes in to take place of the rising warm air over the land. This is why when you are at the beach looking out towards the ocean, a cool breeze blows toward your face. Conversely, a land breeze occurs during the, than the air over the land. This warm ocean air is less dense than the cooler air over the land. when the air over the ocean is warmer Therefore, the warm air rises, and the cooler air from over the land rushes in to take place. If you were on a boat during the night hours, you would feel the breeze coming from the shore. daytime land breeze sea breeze less dense unequal heating night

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