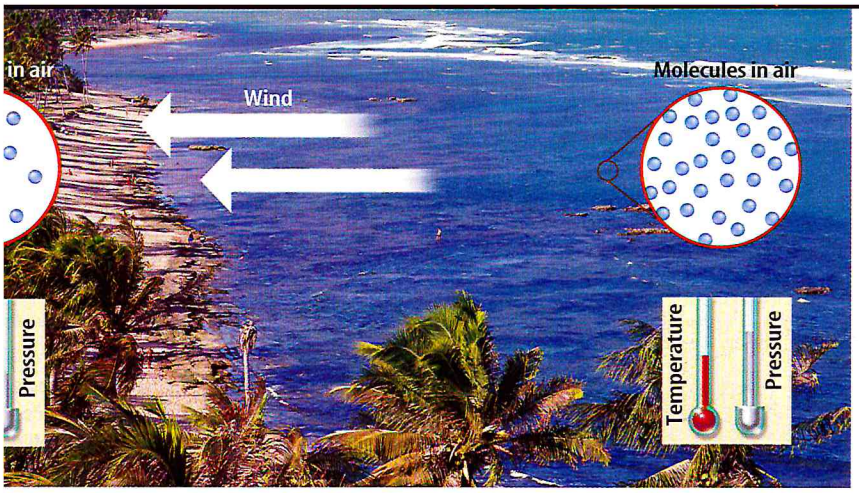

(pands and becomes less dense.
ure.

Molecules making up air are closer together in cooler temperatures, creating high pressure. Wind blows from higher pressure toward lower pressure.

Figure 2 The temperature of air can affect air pressure. Wind is air moving from high pressure to low pressure.
Infer *In the above picture, which way would the wind move at night if the land cooled?*

During the summer when the Sun is hot swim can be refreshing. But would a swim a cold, winter day? The temperature of air y activities.

of molecules that are always moving ran- here's no wind. Temperature is a measure of of motion of molecules. When the temper- ules in air move rapidly and it feels warm. ure is low, molecules in air move less rapidly,

fly a kite on some days but not others? Kites oving. Air moving in a specific direction is Sun warms Earth's surface, air near the sur- onduction. The air expands, becomes less rm, rising air has low atmospheric pressure. ls to sink, bringing about high atmospheric ults because air moves from areas of high low pressure. You may have experienced this time along a beach, as in **Figure 2.**

ts are used to measure wind direction and on can be measured using a wind vane. A row that points in the direction from which . A wind sock has one open end that catches the sock to point in the direction toward lowing. Wind speed can be measured using nuh MAH muh tur). Anemometers have in faster when the wind is strong.

INTEGRATE Life Science

Body Temperature Birds and mammals maintain a fairly constant internal temperature, even when the temperature outside their bodies changes. On the other hand, the internal temperature of fish and reptiles changes when the temperature around them changes. Infer from this which group is more likely to survive a quick change in the weather.

Claim –
Evidence –
Reasonings –

2 Teach

Quick Demo

Molecule Movement

Materials large, clear-plastic bag, small, light objects such as table tennis balls, popcorn, or packing "peanuts," handheld hair dryer

Estimated Time 15 minutes

Procedure Set the hair dryer on low and use it to blow cool air into the bag. Then increase the speed to high. The slower-moving objects represent molecules of cool air. The more rapidly-moving objects represent molecules of warmer air, which move faster and spread farther apart. L2 LS **Visual-Spatial**

Caption Answer

Figure 2 toward the water

INTEGRATE Life Science

Temperature Effects on Animals Birds and mammals are more likely to survive. Because they maintain a certain internal temperature, sudden weather changes would not affect them as much.

Research Have students research and write a short report about the physical and behavioral adaptations of fish and reptiles that help them contend with temperature extremes. Estivation is a dormant state that helps some animals deal with extreme heat and dryness, the way hibernation helps other animals survive cold. L2 LS **Linguistic** P

Teacher FYI

High Winds The highest wind speed ever recorded was 372 km/h, registered on New Hampshire's Mount Washington in 1934. At 56 km/h, the average wind speed on top of Mount Washington is the highest average recorded in the United States.