Lesson 2

ANSWER KEYS

Reading Checks

READING CHECK Determine Conclusions Suppose the two thermometers on a sling psychrometer show almost identical readings. Was the psychrometer more likely used on a Florida beach or in an Arizona desert? Explain your answer.

On a Florida beach because close temperature readings indicate high humidity

READING CHECK Determine Central Ideas How are snow and rain formation similar? How are they different?

Both start as water vapor. Snow forms when water vapor in the air freezes into ice crystals, while rain starts as small droplets. In both processes, gravity causes precipitation when the ice crystals or water drops become too heavy.

PREADING CHECK Summarize Text What role does energy play in the water cycle?

Energy from the sun heats molecules in bodies of water, causing the water molecules to gain energy and be released into the atmosphere.

Figures 2 & 4

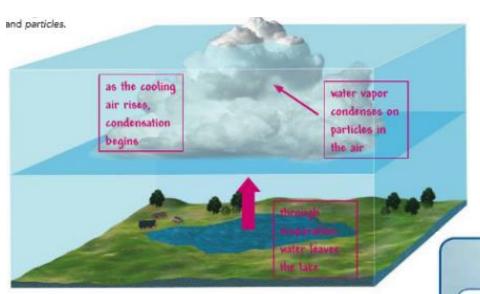




Figure 5

Freezing Precipitation

Figure 5. Draw a check mark on the photos showing the precipitation that occurs when the air temperature is above 0°C, and the ground temperature is heliow 0°C. Draw an X on the photos showing the precipitation that occurs when the air temperature is heliow 0°C, and the ground temperature is above 0°C. Draw a triangle on the photos showing the precipitation that occurs when both air and ground temperature are below 0°C.



Half. A hallstone is a round pellet of ice at least 5 millimeters in diameter. Half starts as an ice pellet inside a cold region of a cloud. Strong updrafts of wind carry the heilstone up through the cold region many times, adding ice in layers to the auside of the heilstone. Eventually the hallstone becomes heavy enough for gravity to put it to the ground.



Preezing Rain. Raindrops sometimes. Insect when they hit a cold surface. This kind of precipitation is called freezing rain.



Sleet Raindrops that fall through a layer of air below O'C freeze into solid particles of ice before they hit the ground, ice particles smaller than hallstones are called aleet.

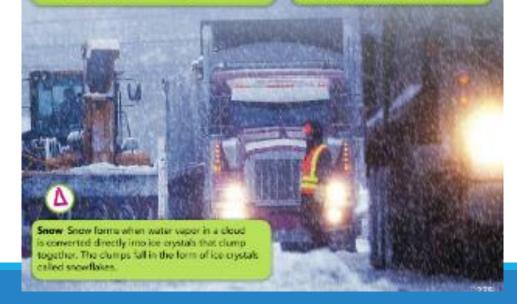


Figure 6

