

Snow is a weather event where water droplets in the atmosphere turn into ice and fall to the ground. The process of snowfall can be divided into several stages. Water vapor in the atmosphere turns into small droplets when it meets cold air. When the air temperature drops to below zero, the water droplets turn into small ice crystals, which mix with water vapor to make larger ice crystals.

Worksheet

Why Does It Snow?

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Check Problem 01

When water vapor gathers, it forms clouds, and rain falls from those clouds. In winter, rain turns into snow. Can you explain how snow is made?



Check Problem 02

Big snowflakes are falling silently. When the temperature drops, round snow pellets called graupel start to fall. What shapes do you think big snowflakes resemble?



Check Problem 03

Snow makes the roads slippery. People sometimes slip and get hurt. However, snow is not all bad. How do you think snow helps plants and animals?



Check Problem 04

Snow is important for keeping the Earth's temperature just right. It reflects more than 90% of sunlight. What do you think would happen if snow did not reflect sunlight?



Check Problem 05

Heavy snowfall can make it hard for cars to drive. The piled-up snow can slide down and cause avalanches. What other problems do you think snow can create?



Check Problem 06

Most of the snow at ski resorts is artificially made. But the snow there does not make a crunchy sound when you step on it. Can you explain why the snow at ski resorts does not make a crunchy sound?


