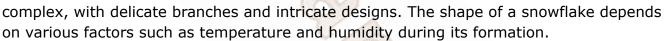


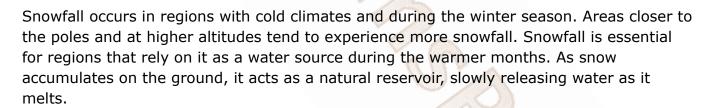
## **Snow**

Snow is a magical form of precipitation that transforms the world into a winter wonderland. It consists of tiny ice crystals that fall from the clouds and cover the ground in a soft, white blanket. Snow is a unique and fascinating weather phenomenon that has a significant impact on our environment.

Snow forms when the temperature in the atmosphere is below freezing (0 degrees Celsius or 32 degrees Fahrenheit) and there is moisture present in the air. Water vapor in the clouds freezes directly into ice crystals without passing through the liquid phase. These ice crystals then join together to form snowflakes.

No two snowflakes are alike. Each snowflake has its own intricate shape and pattern. Snowflakes can be simple, like flat hexagonal shapes, or more





Snow has both positive and negative impacts on the environment. One of the benefits of snow is that it provides insulation for plants, protecting them from extreme cold temperatures. Snow also serves as a water source for animals during winter when other



water sources may be frozen. In addition, snow enhances recreational activities such as skiing, snowboarding, and building snowmen.

However, excessive snowfall can lead to challenges. Heavy snow can block roads and disrupt transportation. It can also cause structural damage to buildings and create hazardous conditions for outdoor activities. Additionally, rapid snowmelt during warmer periods can contribute to floods.

Snowflakes are formed by the unique combination of temperature and moisture in the atmosphere. The intricate patterns of snowflakes are a result of the molecular structure of



ice and the environmental conditions in which they form. Every snowflake is a tiny work of art.

In conclusion, snow is a beautiful and unique form of precipitation that occurs when ice crystals fall from the clouds and cover the ground. It forms in cold temperatures when there is moisture present in the air. Snow has both positive and negative impacts on the environment, providing insulation for plants and acting as a water source but also presenting challenges in transportation and causing potential damage. Each snowflake is special and adds to the enchantment of winter.

- 1. How does snow contribute to recreational activities?
  - A) It causes people to stay indoors and avoid recreational activities.
  - B) It enhances activities such as skiing, snowboarding, and building snowmen.
  - C) It leads to the cancellation of outdoor events and sports activities.
  - D) It creates obstacles and makes outdoor activities difficult.
- 2. What is the temperature range in which snowflakes form?
  - A) Cold but not freezing (-5 degrees Celsius or 23 degrees Fahrenheit).
  - B) Above freezing (10 degrees Celsius or 50 degrees Fahrenheit).
  - C) Hot and sunny weather.
  - D) Below freezing (0 degrees Celsius or 32 degrees Fahrenheit).
- 3. What challenges can heavy snowfall bring?
  - A) Structural damage to buildings.
  - B) Disruption of transportation and blocked roads.
  - C) All of the above.
  - D) Hazardous conditions for outdoor activities.
- 4. In which regions does snowfall occur?
  - A) Regions near the equator.
  - B) Regions with cold climates and during the winter season.
  - C) Regions with hot and tropical climates.
  - D) Regions with moderate temperatures year-round.
- 5. What benefits does snow provide for the environment?
  - A) It enhances recreational activities such as skiing and snowboarding.
  - B) It serves as a water source for animals during winter.
  - C) It acts as insulation for plants, protecting them from extreme cold temperatures.
  - D) All of the above.
- 6. How do snowflakes form?
  - A) Raindrops freeze in mid-air to become snowflakes.
  - B) Snowflakes are formed from frozen fog.
  - C) Water droplets in the clouds freeze and then form ice crystals.
  - D) Water vapor in the clouds freezes directly into ice crystals.



- 7. What is the unique characteristic of snowflakes?
  - A) Snowflakes can only be seen under a microscope.
  - B) No two snowflakes are alike.
  - C) Snowflakes are made of liquid water droplets.
  - D) Snowflakes are formed by the unique combination of temperature and moisture in the atmosphere.
- 8. What happens when snow accumulates on the ground?
  - A) It becomes compacted and forms icebergs.
  - B) It acts as a natural reservoir, slowly releasing water as it melts.
  - C) It evaporates into the atmosphere.
  - D) It transforms into ice without melting.
- 9. What benefits does snow provide for the environment?
  - A) It acts as a water source for animals during winter.
  - B) It enhances recreational activities such as skiing and snowboarding.
  - C) It serves as insulation for plants, protecting them from extreme cold temperatures.
  - D) All of the above.
- 10. What determines the shape of a snowflake?
  - A) The presence of other snowflakes in the area.
  - B) The altitude at which it forms.
  - C) Factors such as temperature and humidity during its formation.
  - D) The speed of the wind during snowfall.



## **ANSWERS & EXPLANATIONS**

- 1. B) It enhances activities such as skiing, snowboarding, and building snowmen.
  - The passage mentions that snow contributes to recreational activities like skiing, snowboarding, and building snowmen.
- 2. D) Below freezing (0 degrees Celsius or 32 degrees Fahrenheit).
  - The passage states that snowflakes form when the temperature in the atmosphere is below freezing.
- 3. C) All of the above.
  - The passage mentions that heavy snowfall can cause structural damage to buildings, disrupt transportation, and create hazardous conditions for outdoor activities.
- 4. B) Regions with cold climates and during the winter season.
  - The passage specifies that snowfall occurs in regions with cold climates and during the winter season.
- 5. D) All of the above.
  - The passage highlights that snow provides insulation for plants, acts as a water source for animals during winter, and enhances recreational activities.
- 6. D) Water vapor in the clouds freezes directly into ice crystals.
  - The passage explains that snowflakes form when water vapor in the clouds freezes directly into ice crystals.
- 7. B) No two snowflakes are alike.
  - The passage mentions that each snowflake has its own intricate shape and pattern, and no two snowflakes are alike.
- 8. B) It acts as a natural reservoir, slowly releasing water as it melts.
  - The passage explains that snow accumulates on the ground and acts as a natural reservoir, gradually releasing water as it melts.
- 9. D) All of the above.
  - The passage emphasizes that snow acts as a water source for animals, enhances recreational activities, and provides insulation for plants.
- 10.C) Factors such as temperature and humidity during its formation.
  - The passage states that the shape of a snowflake is determined by factors such as temperature and humidity during its formation.