

When you see rain or snow fall from above, you're watching precipitation in action! Where does precipitation come from and why does it fall in different forms?

Liquid or Solid

Precipitation happens when water falls to Earth's surface. This water might be in a liquid or solid state.







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olid					

Takes Many Shapes

Rain and snow are probably the most well known types of precipitation, but there are others. The temperature of the cloud and the air between the cloud and the ground create different kinds of precipitation.

Atmospheric Temperature Guide (sky colors in graphics below)

Above freezing

Rain

Rain made of liquid water droplets

falls when temperatures in the air and



Freezing Rain

Freezing rain falls like rain, but as soon as it touches the ground, it freezes! It starts as ice crystals. The ice crystals melt and turn into water droplets as they go through a layer of above-freezing air. If the temperature in a thin layer of air at the surface is below freezing, the water droplets freeze when they land.

Hail

The balls of ice that fall from clouds and can even put dents in cars are known as hail. Hail is created in thunderstorm clouds. Water 4 droplets form in the cloud and get pushed upward, where temperatures are colder. The droplets freeze and form hailstones. The hailstones grow as more water droplets freeze onto them and eventually fall to the ground.







Near freezing

Below freezing



