

Explanation Scaffold

Focus Question: Why do car windows fog up in cold weather?

Title

Why Car Windows Fog Up in Cold Weather

Definition

Car windows fog up when warm air inside the car touches the cold glass. Tiny drops of water form on the window and make it look foggy.

Description

First, people inside the car breathe out warm air.
Next, the window is cold because the weather outside is cold.
Then, the warm air touches the cold glass.
After that, tiny drops of water form on the window.
The glass begins to look cloudy or foggy.

Conclusion

So, car windows fog up in cold weather because warm air meets a cold window.

Sentence Starters Version

Title

Why Car Windows Fog Up in Cold Weather

Definition

Car windows fog up because _____.
This happens when _____.

Description

First, _____.
Next, _____.
Then, _____.

After that, _____.

The window looks _____.

Conclusion

So, car windows fog up because _____.

Word Bank

- warm air
 - cold glass
 - window
 - foggy
 - water drops
 - breath
 - weather
 - cloudy
-

Modelled Example 1

Title

Why Car Windows Fog Up in Cold Weather

Definition

Car windows can fog up on cold days, especially when people are sitting inside the car. This happens because the air inside the car is warm, but the window glass is very cold. When the warm air touches the cold glass, tiny drops of water form on the window. These tiny drops make the glass look foggy and hard to see through.

Description

First, people inside the car breathe out warm air. Their bodies also help make the inside of the car warmer. Next, the window stays cold because it is cold outside. Then, the warm air inside the car moves onto the cold glass. When this happens, the air changes into tiny drops of water on the window. These drops spread across the glass and make it look cloudy. This is why the window becomes foggy in cold weather.

Conclusion

In conclusion, car windows fog up in cold weather because warm air inside the car touches the cold window. This makes tiny drops of water form on the glass, and the window looks foggy.

Modelled Example 2

Title

Why Car Windows Fog Up in Cold Weather

Definition

In cold weather, car windows often fog up. This happens when the warm air inside the car touches the cold glass. When the warm air meets the cold surface, tiny drops of water appear on the window. These drops make the glass look misty or foggy.

Description

First, people in the car breathe out warm air. The inside of the car becomes warmer while the window stays cold from the weather outside. Next, the warm air touches the cold glass. Then, tiny drops of water begin to form on the window. After that, more and more drops gather on the glass. As a result, the window starts to look cloudy and foggy, which can make it harder to see outside.

Conclusion

To conclude, car windows fog up because warm air inside the car meets the cold window. This causes tiny drops of water to form, making the glass look foggy.