

WHY DOES A CRICKET BALL SWING?

The seam, airflow and pressure difference work together to make the ball change direction.



1 AIRFLOW

As the ball moves through the air, airflow splits into two parts.



Air moves faster over one side and slower over the other.

2 SEAM

The seam is slightly rough on one side (old ball) and smooth on the other.



This difference affects the airflow on each side.

3 PRESSURE DIFFERENCE

Faster airflow on the smooth side creates lower pressure. Slower airflow on the rough side creates higher pressure.



High pressure pushes toward low pressure, creating a sideways force.

4 BALL MOVEMENT

The sideways force makes the ball swing in the air.



The ball moves away from the rough side towards the smooth side.

KEY FACTORS FOR SWING



OLD BALL:

One side rough, one side smooth.



SPEED:

Faster speed = more swing.



CONDITIONS:

Moist air, clouds and green pitches help swing.

HOW IT WORKS (IN SIMPLE WORDS)



AIRFLOW
Splits around the ball



SEAM
Creates rough & smooth sides



PRESSURE DIFFERENCE
High pressure → Low pressure



BALL SWINGS
Moves towards low pressure side



REMEMBER

Different airflow on two sides creates pressure difference, and that difference makes the ball **SWING!**



SCIENCE BEHIND SKILL!

THAT'S WHY GOOD BOWLERS MAKE THE BALL TALK.

