

How higher temperatures affect flying

As temperatures increase, air density decreases, which reduces lift and makes it harder for airplanes to take off. To address this, airlines could reduce airplane weight (by loading fewer passengers and less fuel or cargo) or schedule departures for cooler periods of the day.

LOWER TEMPERATURES

More lift



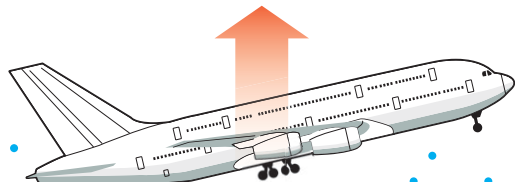
DENSER AIR MOLECULES

Shorter takeoff runs



HIGHER TEMPERATURES

Less lift



SPARSER AIR MOLECULES

Longer takeoff runs

