TEACHER'S GUIDE

Listening activities and suggested answers

How do airplanes stay in the sky?

This version: English | Duration: 8:57 (about 9 min)

Published languages: English, Finnish.

Spotify: open.spotify.com/episode/7GI2UVLbokQ3D9gNXu4lOG
YouTube: youtu.be/NoNQfVa2LyM

Introduce the questions before listening. Students write answers after the whole episode. Discuss their answers as a class or in pairs.

Suggested answers are in italics. Accept students' own wording when the meaning is correct.

1 **How does a wing affect the air flowing past it?**

Its shape and angle change airflow and pressure. It turns passing air downward, and an upward force acts on the wing.

2 **Why did the Wright brothers build a wind tunnel?**

They could compare small wing shapes and measure the air's effects. Experiments helped improve the aircraft instead of relying on guesses.

3 **What does an aircraft stall mean?**

Airflow separates badly from the wing and lift decreases. It does not necessarily mean the engine has stopped.

4 **Draw an aircraft's four forces**

Weight acts down, lift usually up, thrust forward and drag backward. A very simple aircraft drawing is enough.

Teaching tip: Use steady level flight rather than a climb or tight turn.