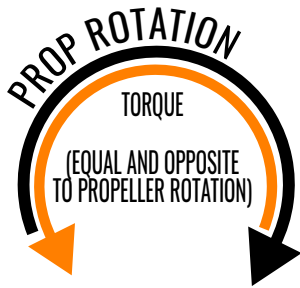


LEFT TURNING TENDENCIES



FLIGHT APPRENTICE

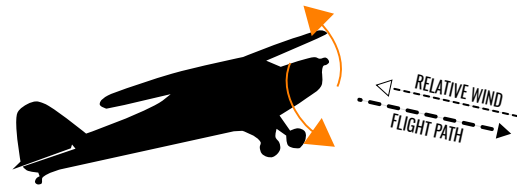


THE EQUAL-AND-OPPOSITE FORCE GENERATED FROM THE PROPELLER ROTATING RIGHT IS THE AIRPLANE ROTATING LEFT

FORCE INCREASES WITH POWER

TORQUE

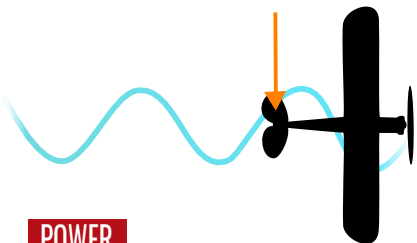
POWER



POWER
AOA

GREATER AIRFLOW ON DESCENDING BLADE. EFFECT INCREASES WITH ANGLE OF ATTACK (AOA) AND HIGH POWER SETTING.

P-FACTOR



AIRFLOW OFF THE PROPELLER STRIKES THE LEFT SIDE OF THE VERTICAL STABILIZER.

INCREASES WITH POWER, BUT DECREASES WITH SPEED.

POWER
AIRSPEED

SPIRALING SLIPSTREAM

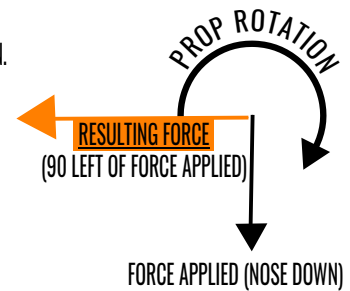
GYROSCOPIC PRECESSION FROM PROPELLER ROTATION.

MOST NOTICEABLE IN TAILWHEEL AIRCRAFT ON TAKEOFF.

INCREASES WITH POWER AND AMOUNT OF FORCE APPLIED.

POWER

CONTROL FORCE



GYROSCOPIC FORCE

LEFT TURNING TENDENCIES IN A TAKEOFF ROLL

