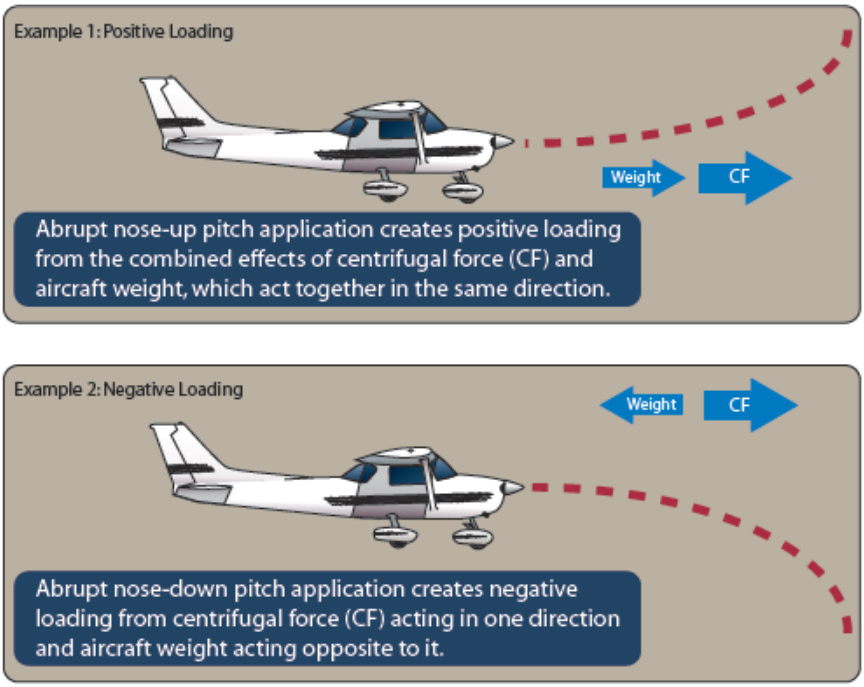
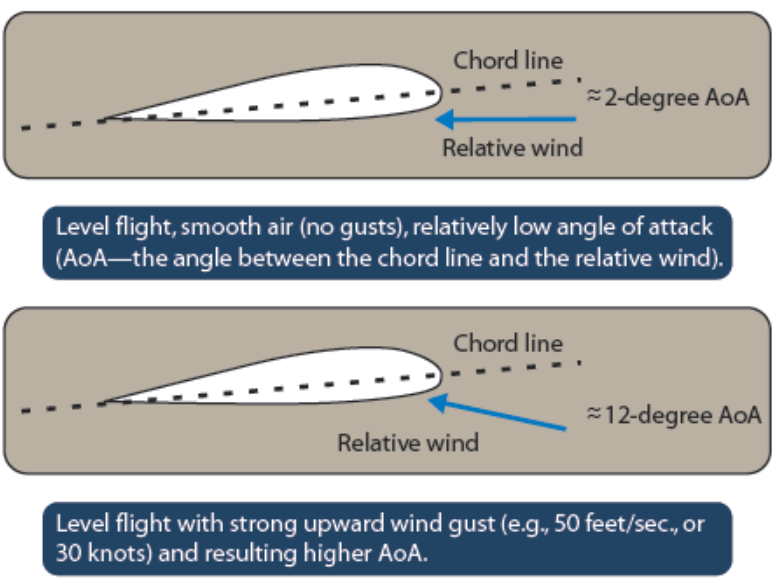
Wing Loading Under Positive And Negative G



Effect Of Upward Wind Gust On Angle Of Attack (AoA)



A strong upward wind gust—such as those associated with thunderstorms or frontal conditions—striking from below the airplane causes the relative wind to change to an upward direction as it meets the wings. This instantly increases angle of attack, lift and load factor. The effect is the same as when applying a sudden sharp pulling motion on the pitch control.