

Directions: Pair up with your "stick buddy" and set up the computer with "Prepar3D" and joystick. Work together to set up each Scenario and answer the questions as specifically as possible. General answers won't work.

1. Set up at any runway at Waterbury-Oxford (KOXC). Line up with the runway with the brake on.
2. Set Flaps full down.
3. Mixture rich
4. Full Throttle
5. Release Brakes
6. Keep plane centered on runway
7. Keep plane on runway until 65 knots
8. Slight back pressure on joystick (yoke)
9. Climb at 500-1000 fpm, Not more!
10. Raise Flaps after reaching 1000 feet
11. Level off at 3000 feet
12. Set RPM at 1800
13. Trim aircraft so not climbing or descending when controls are released
14. Check for coordinated flight, look at the turn coordinator and see if the "ball" is centered, "yaw" the plane, to center the "ball" if needed. Meaning "step on the ball". In other words, if the "ball" slides to the left or right, twist the joystick left or right which is the same as pushing on the left or right pedal to adjust the "ball" to stay centered.

Scenario #1:

Now that you are stabilized at 3,000 feet, do the following:

1. Bank left 45°.
2. Release controls, (take hands off joystick or yoke – keep ball centered).
3. Wait 10 seconds.
4. Pause flight
5. What happens during the 1<sup>st</sup> 10 seconds?

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6. Why does it **turn** left? Be very specific!!

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7. Does the plane Descend? Why? Be specific!!

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8. Set RPM@ 1800 and return to coordinated at 3,000 feet, trimmed, straight and level flight.

Scenerio #2: With the Airplane straight and level at 3,000 feet and trimmed.

1. Move power to maximum throttle
2. Let go of the controls (keep ball centered)
3. Wait 10 seconds, observing what happens to the airplane
4. Pause
5. What did the plane initially do? Why? Be Specific

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6. Un-pause, return to coordinated, trimmed, straight and level flight at 3000 feet, set RPM @ 1800.

! Scenario #3: With the airplane set at 3,000 feet straight and level and trimmed at 1800 rpm's.

1. Turn power off so engine is idling. Let go of the controls (keep ball centered).
2. Wait 10 seconds, observing what happens to the airplane
3. Pause
4. What did the plane initially do? Why? Be v e r y specific

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