Lesson 1: Boeing 737 Checkout	**Fly This Lesson Now**

Boeing 737–400 Takeoff Procedures

Notes:

- Select aircraft: Boeing 737–400.
- Select a starting airport with sufficient runway.
- Press **CTRL+SEMICOLON (;)** at any time to reset the flight. This is useful for practicing repeated takeoffs without having to use Create a Flight each time.
- Press **P** to pause and again to resume the flight.

Action	**Key / Control**
On the Runway	
Line up on the runway centerline.	
Set flaps to 5.	Press **F7** three times or until flap gauge points to 5.
Add power to approximately 40 to 50 percent N1.	Advance throttle (press **F3**).
Release brakes.	Press the **PERIOD (.)** key.
Set takeoff power to 95 percent N1.	Advance throttle (press **F3**).
Speed 154 knots (indicated); "Rotate"	Pull back on stick.
Pitch up to 20 degrees nose up (at a rate of 3 degrees per second).	
When positive rate: "Gear Up" (Positive rate is when both the Vertical Speed Indicator and Altimeter show a positive increase.)	Press **G**.
Reaching 1,000 Feet AGL	
"Flaps up" (Your speed should be at least 180 knots at this point.)	Press **F5** for full retraction; press **F6** for incremental retraction.
Set climb power to 90 percent N1.	Reduce throttle (press **F2**).
Lower pitch to 15 degrees nose up.	
Target Airspeed: 200 knots	
Climbing through 2,500 Feet	
Reduce pitch to between 10 and 12 degrees nose up and accelerate to 250 knots.	
Remaining in the Traffic Pattern	
Pitch to 5 degrees nose up, and level off at 3,000 AGL.	
Reduce power to 40 to 45 percent N1.	Reduce throttle (press **F2**).
Keep speed at or below 200 knots.	Adjust power as necessary.
Turn left to the downwind heading using a 25 to 30 degrees bank (180 degrees from takeoff heading).	
Climbing through 10,000 Feet to Cruise Altitude	
Reduce pitch to 6 degrees; Accelerate to between 280 and 310 knots.	
When reaching your target speed: increase pitch to 9 degrees to 10 degrees nose up and maintain that speed.	
Leveling Off at Cruise Altitude	
At 1,000 feet before target altitude reduce rate of climb to 1,500 fpm.	
100 feet before your target altitude, reduce pitch to 2 degrees nose up.	

Simultaneously reduce power to 70 to 72 percent N1.

Trim elevator for level flight.

Reduce throttle (press **F2**).

Press **Num Pad 7** to trim down; press **Num Pad 1** to trim up.