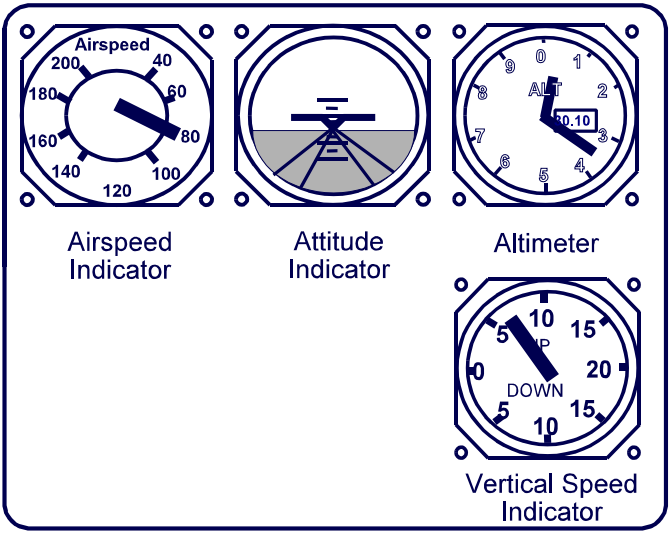

These are typical representations.
Not all take-offs will produce these exact instrument readings.

Figure 5-B: Flight instruments during take-off

Liftoff

Liftoff is the aircraft's becoming airborne. It's the first moment of physical flight. (For scheduling purposes, flights are often considered to begin when the aircraft leaves the parking area, apron, or gate.) Liftoff happens just after rotation if the pilot rotates at or above sufficient speed.

This airspeed is slightly higher than rotation speed, and it is called "VLOF." With its nose pitched up slightly, and with enough airspeed, the aircraft lifts off the runway and becomes airborne. Like rotation speed,

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