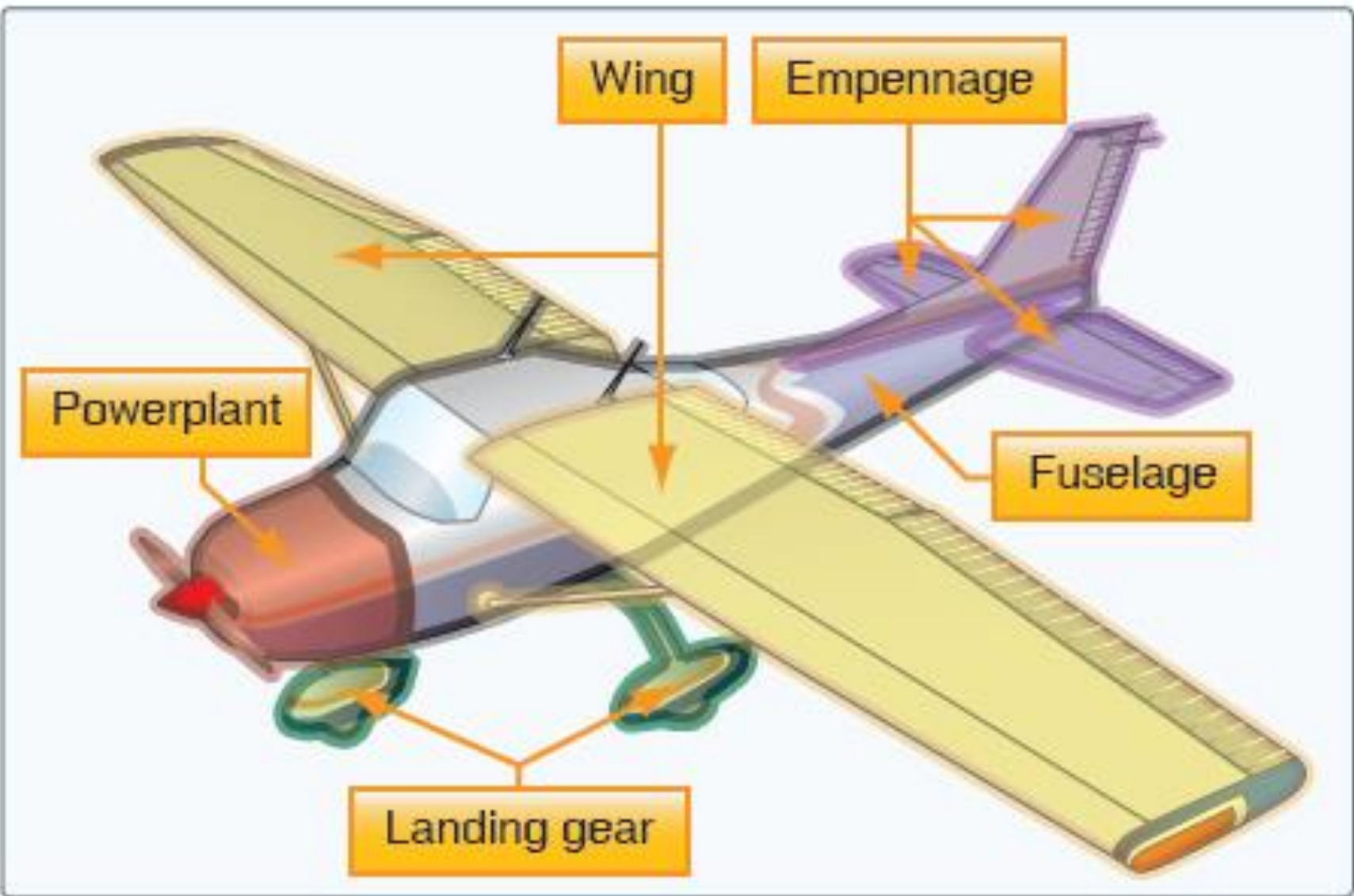


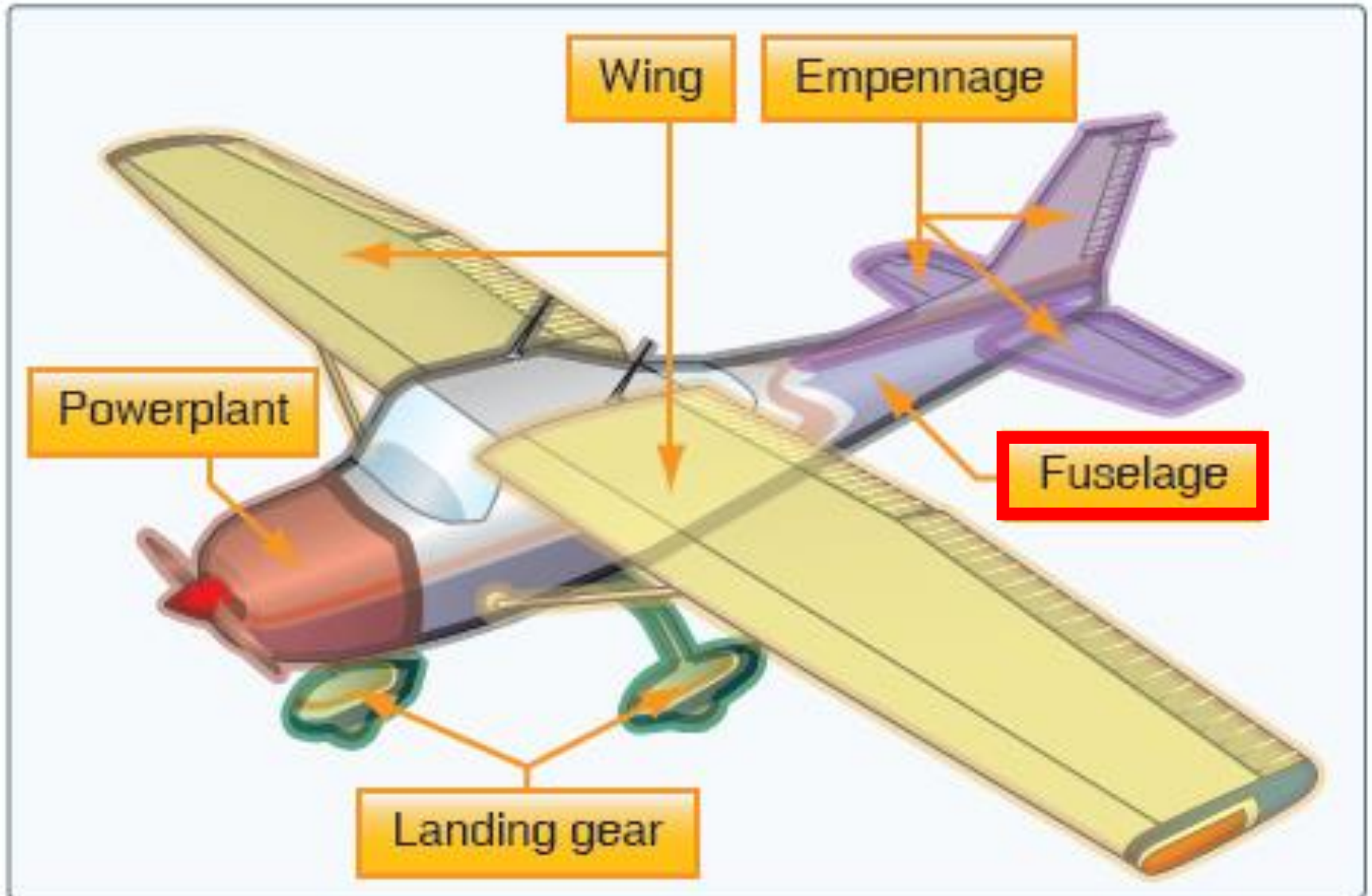
Getting to Know
Your Airplane

Airplane Components

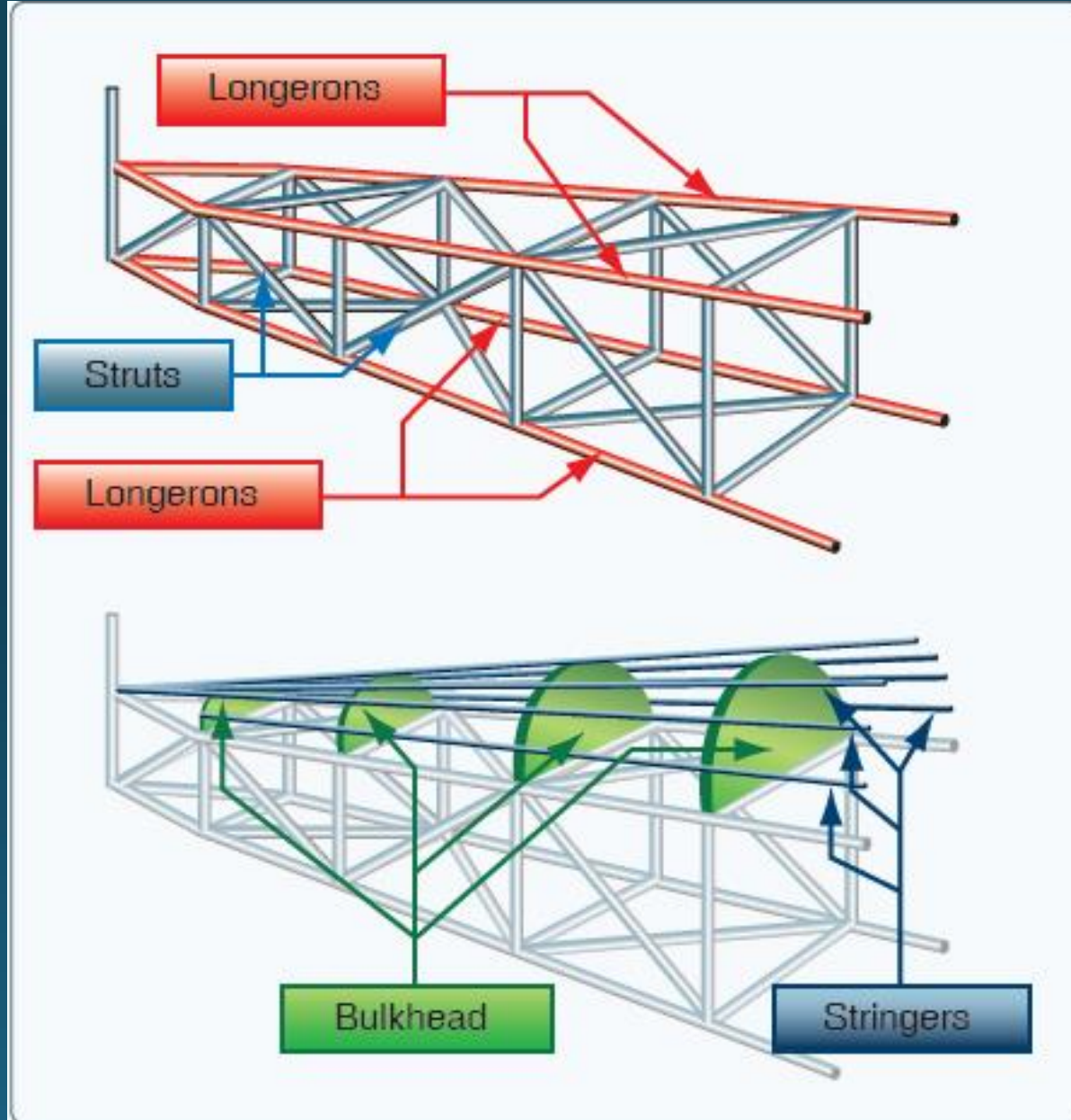
Basic Airplane Components



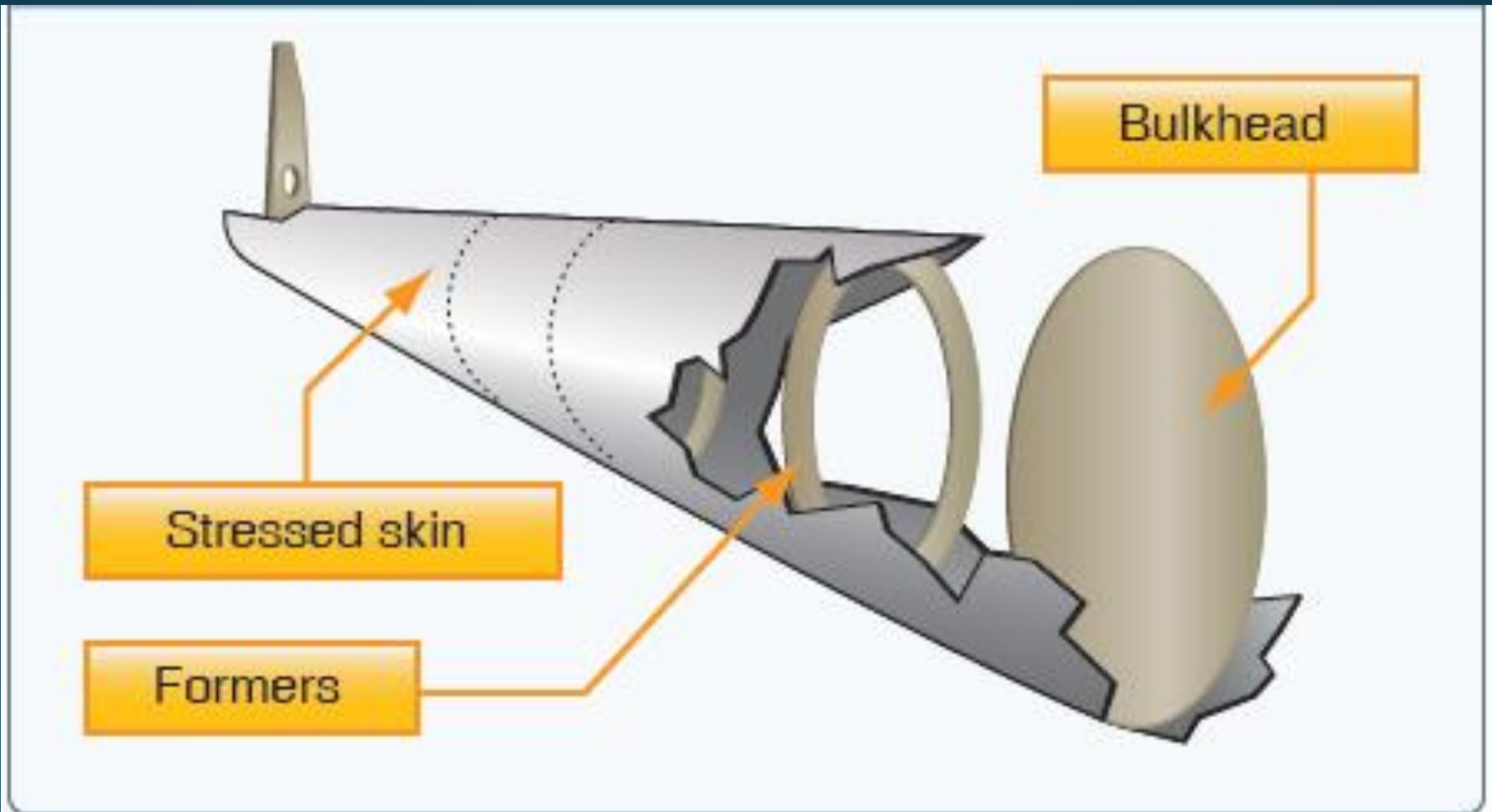
Basic Airplane Components



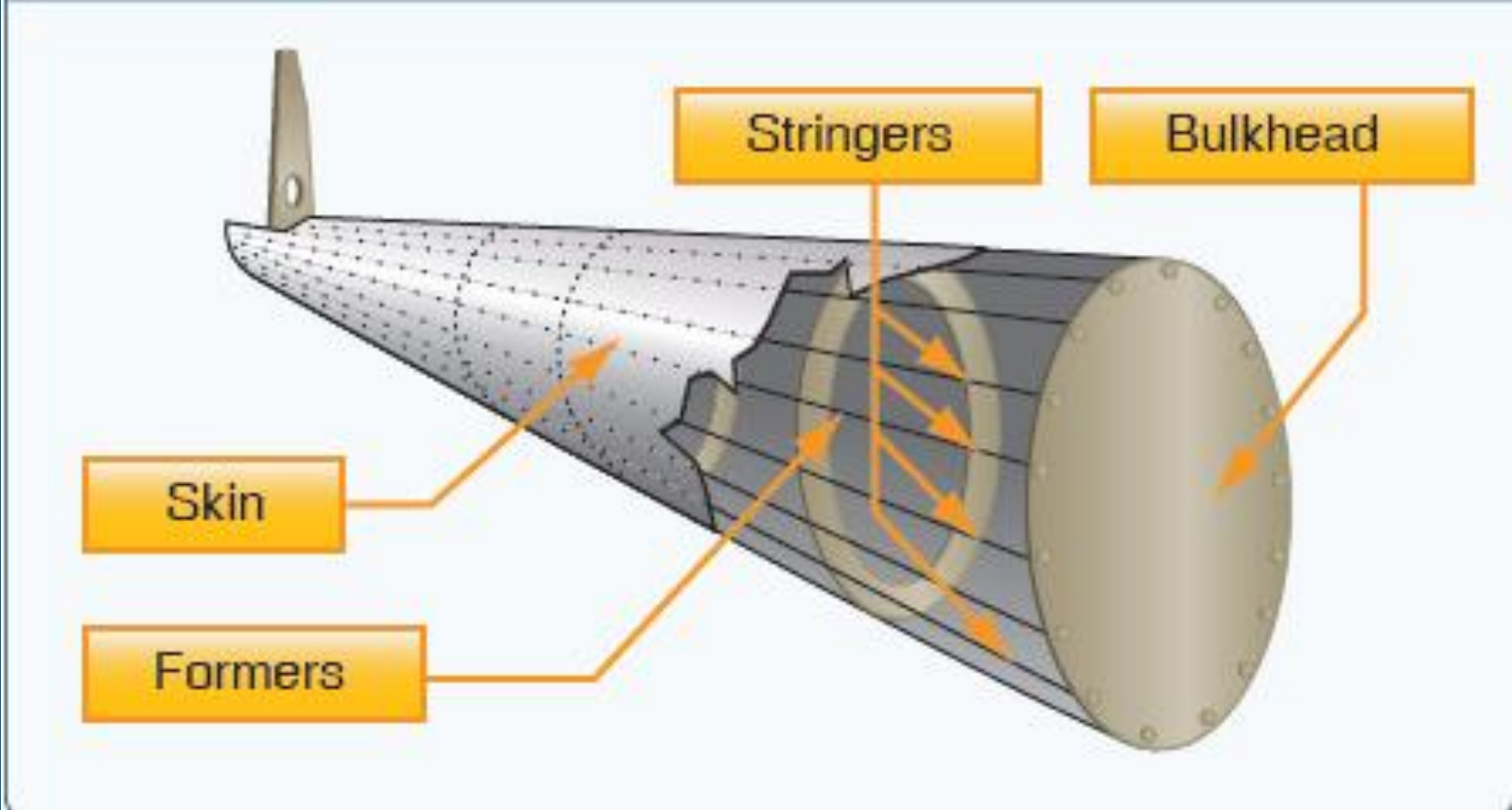
Older Fuselage Design



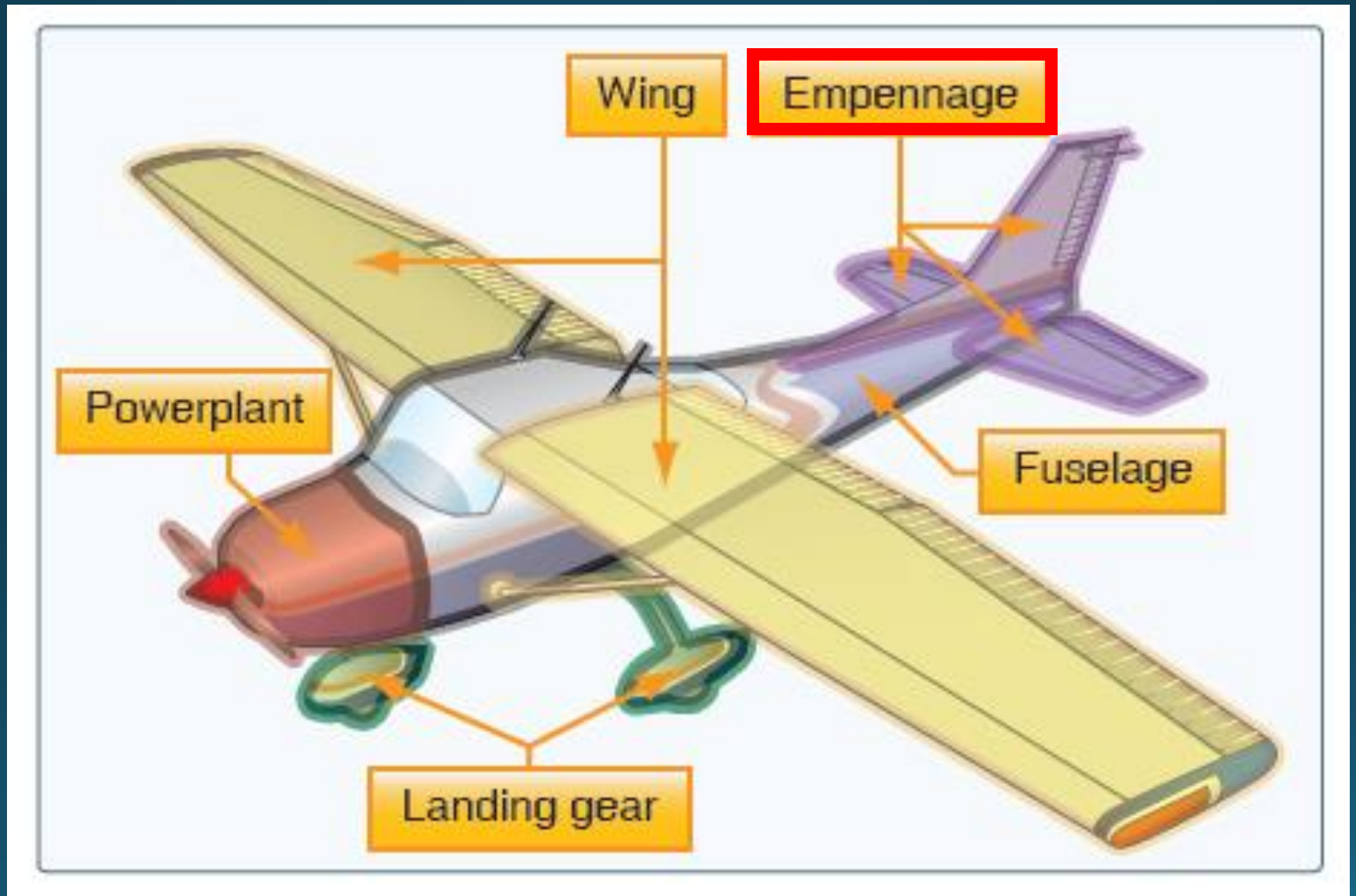
Modern Fuselage: Monocoque



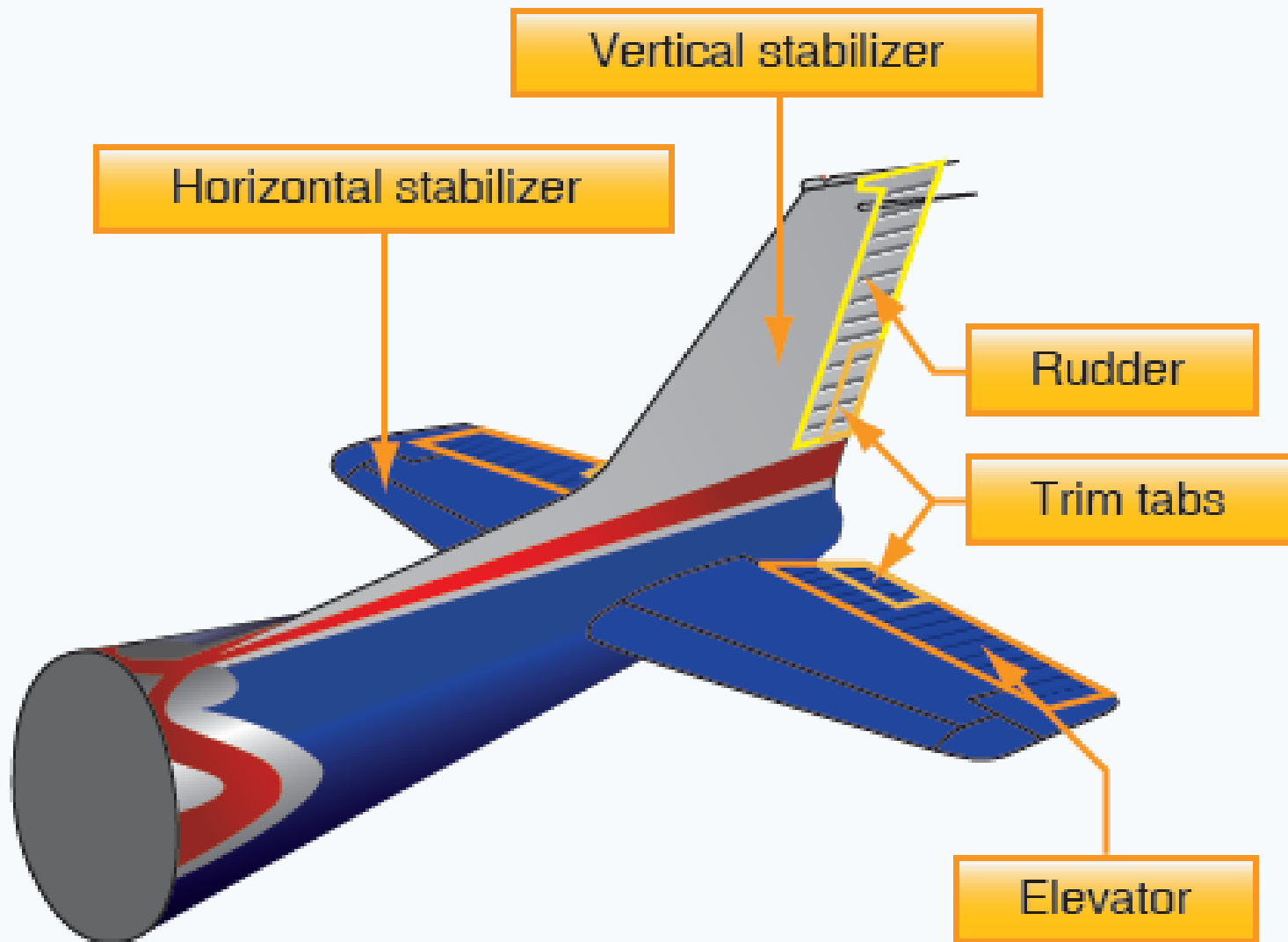
Modern Fuselage: Semi-monocoque



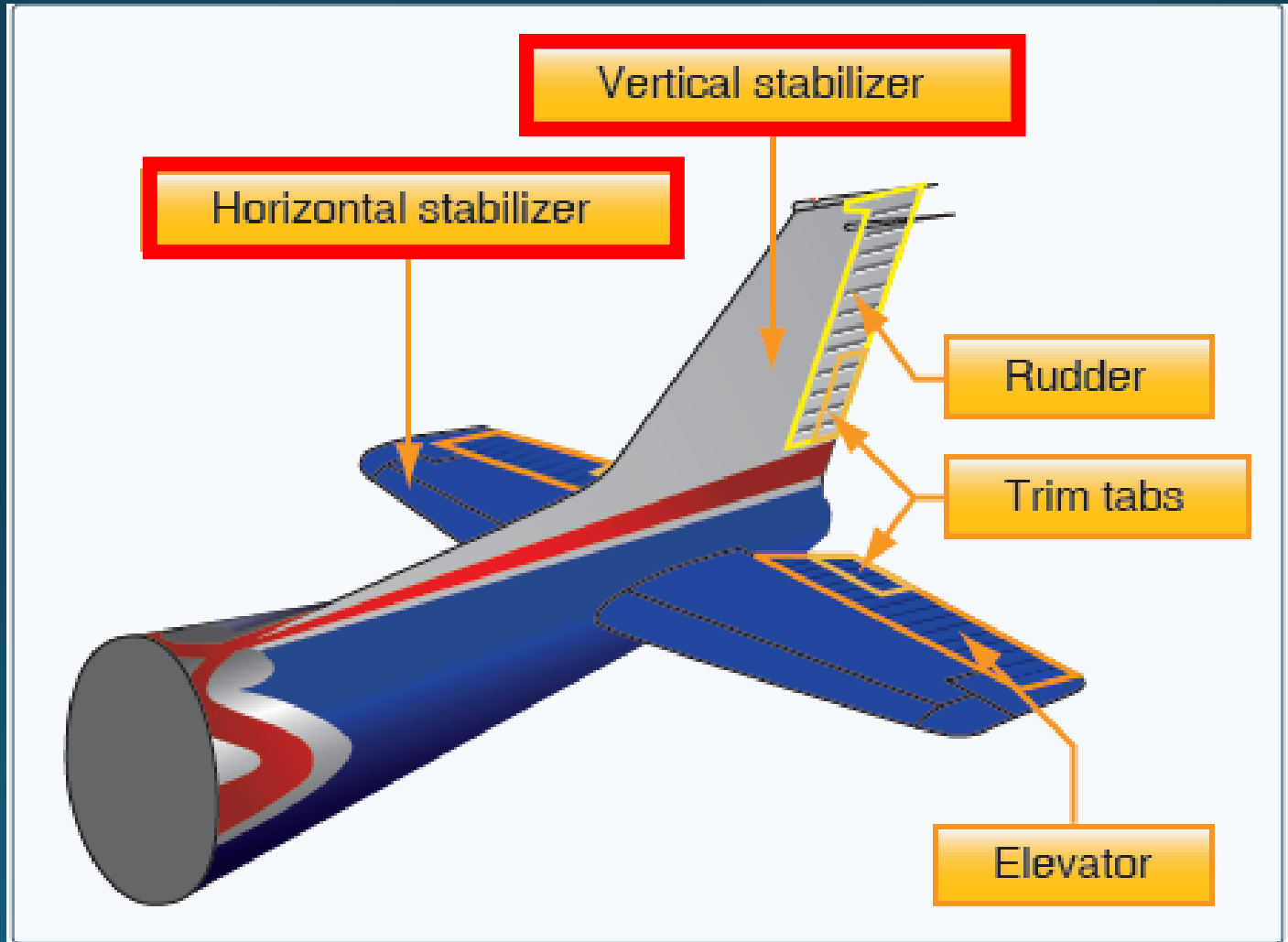
Basic Airplane Components



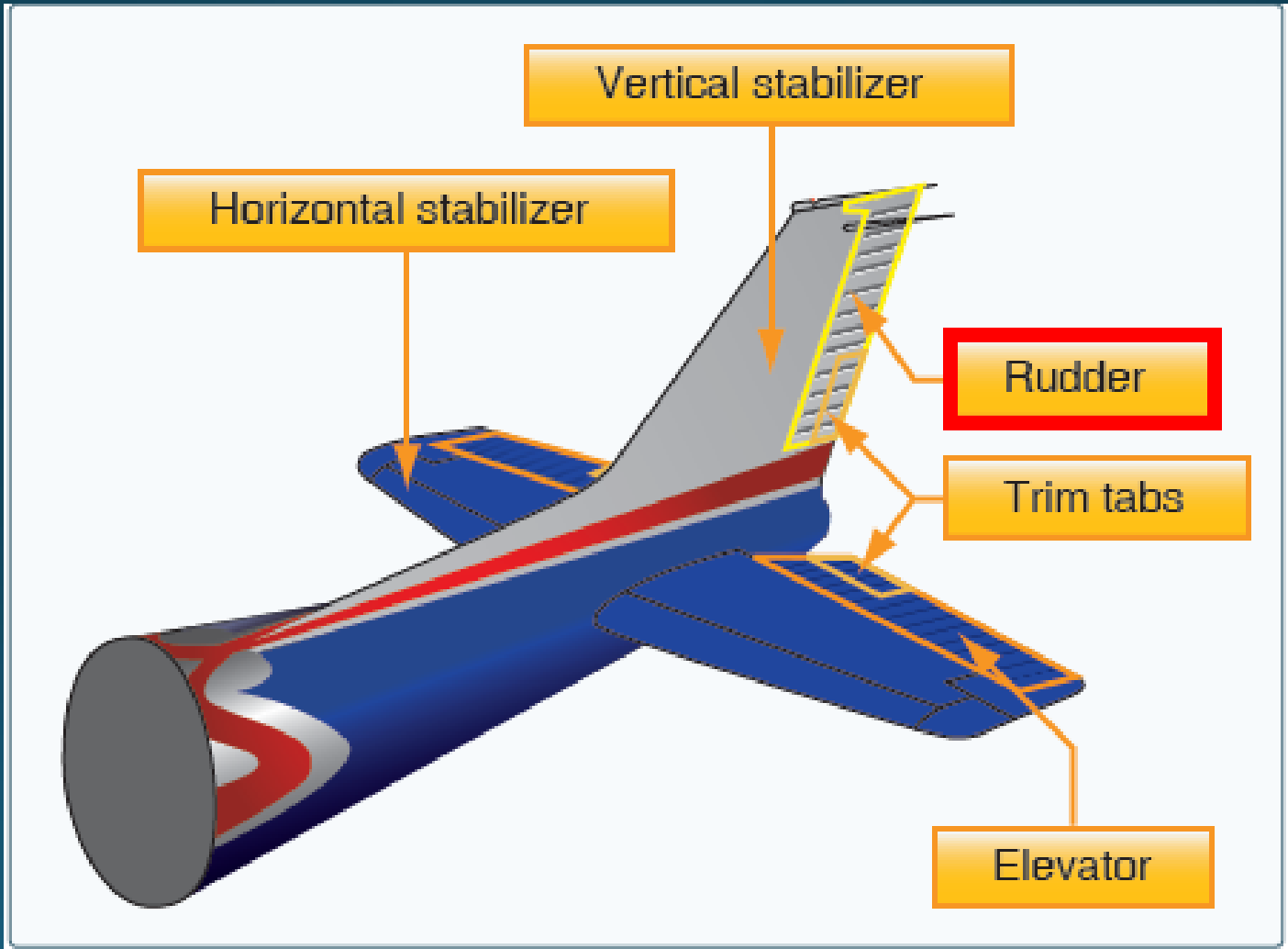
Empennage



Empennage: Stationary



Empennage: Rudder



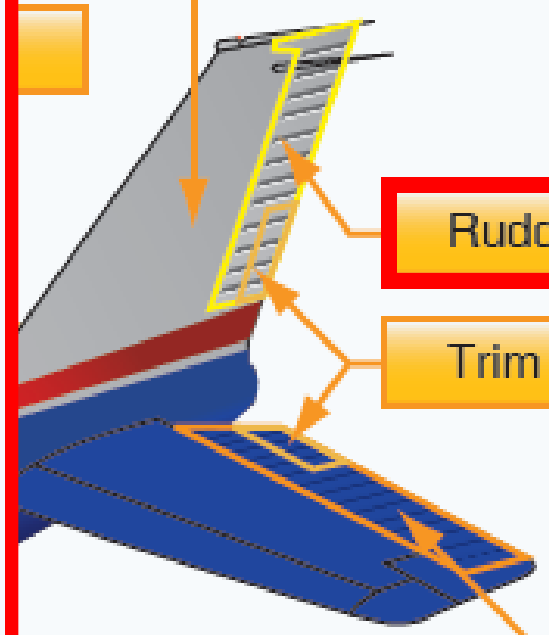
Empennage: Rudder

Yawing



Vertical axis

Vertical stabilizer

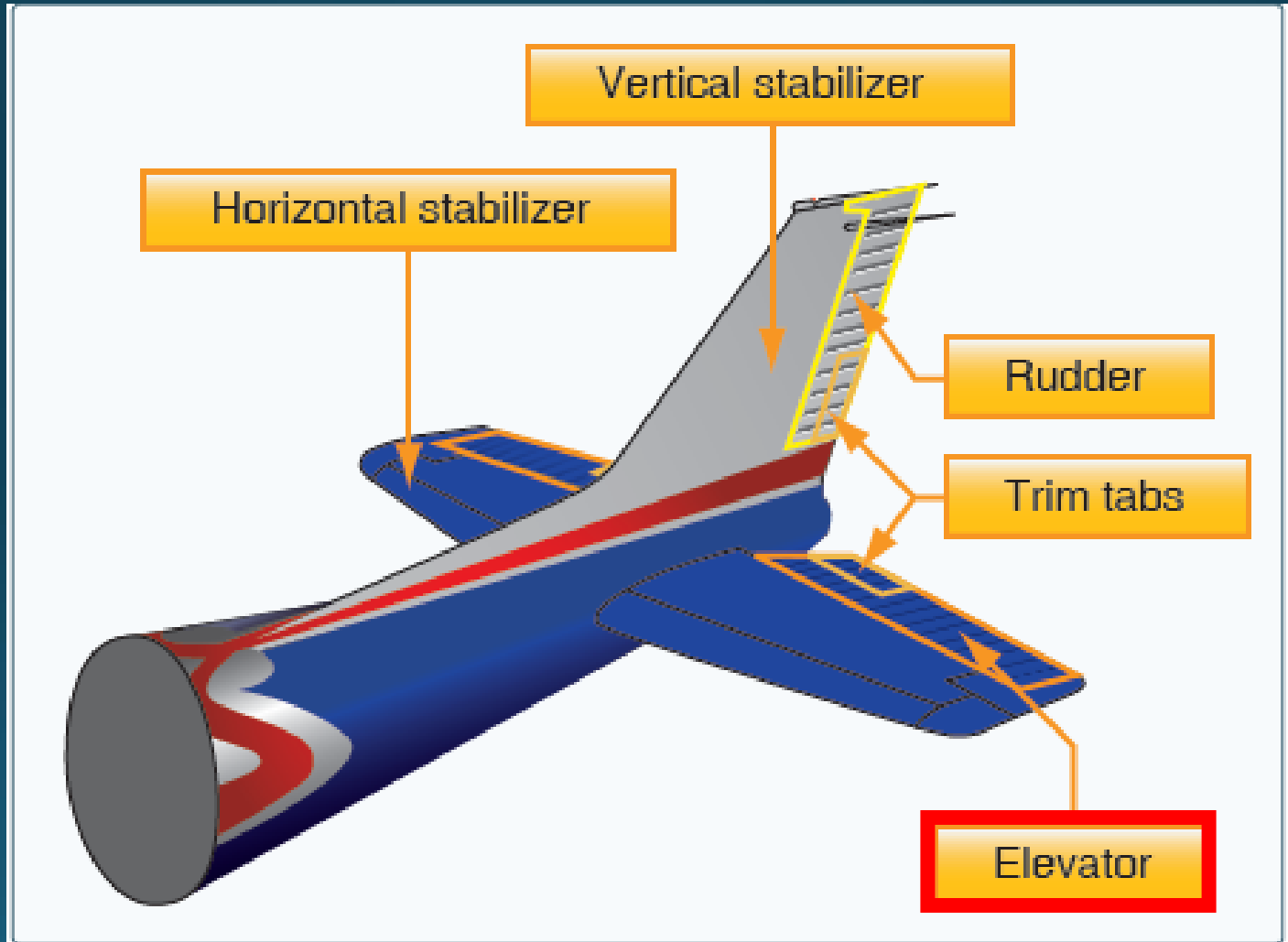


Rudder

Trim tabs

Elevator

Empennage: Elevator



Empennage: Elevator

Pitching



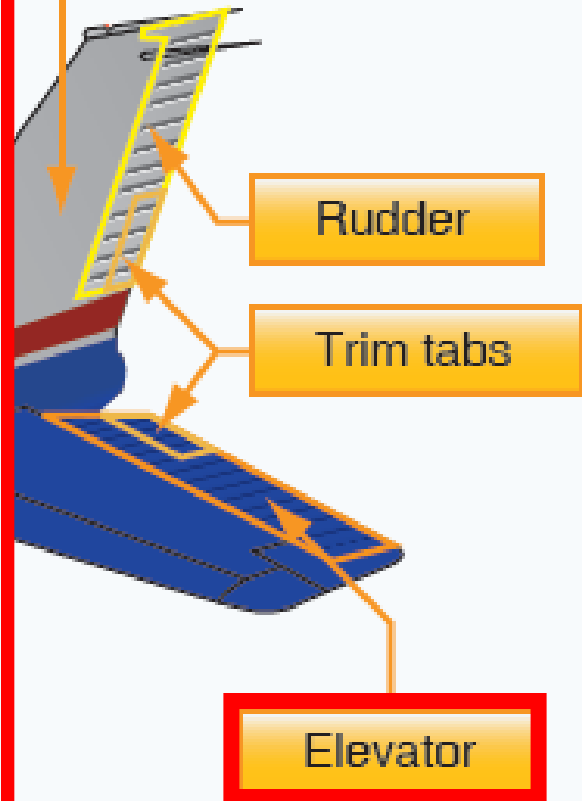
Lateral axis

Vertical stabilizer

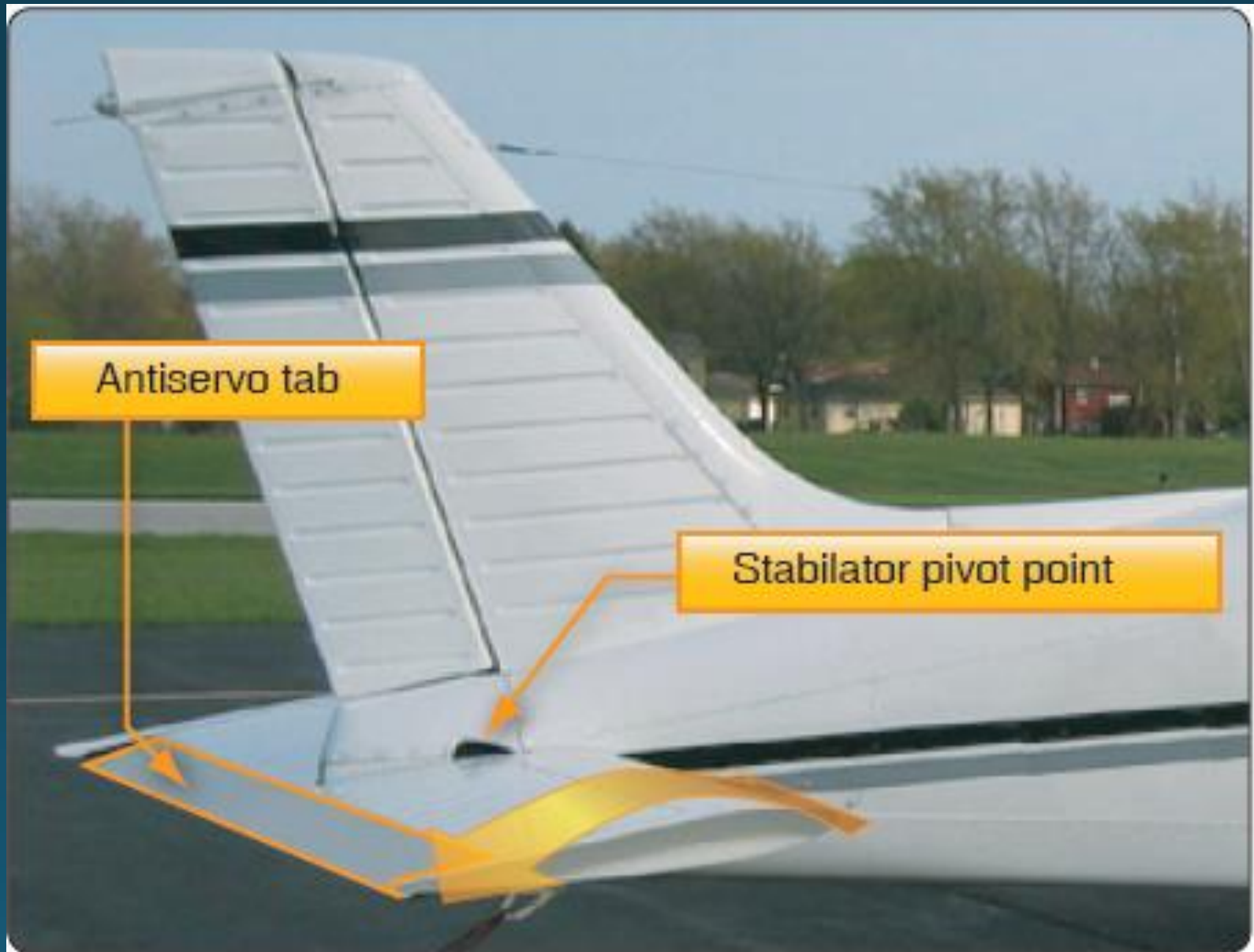
Rudder

Trim tabs

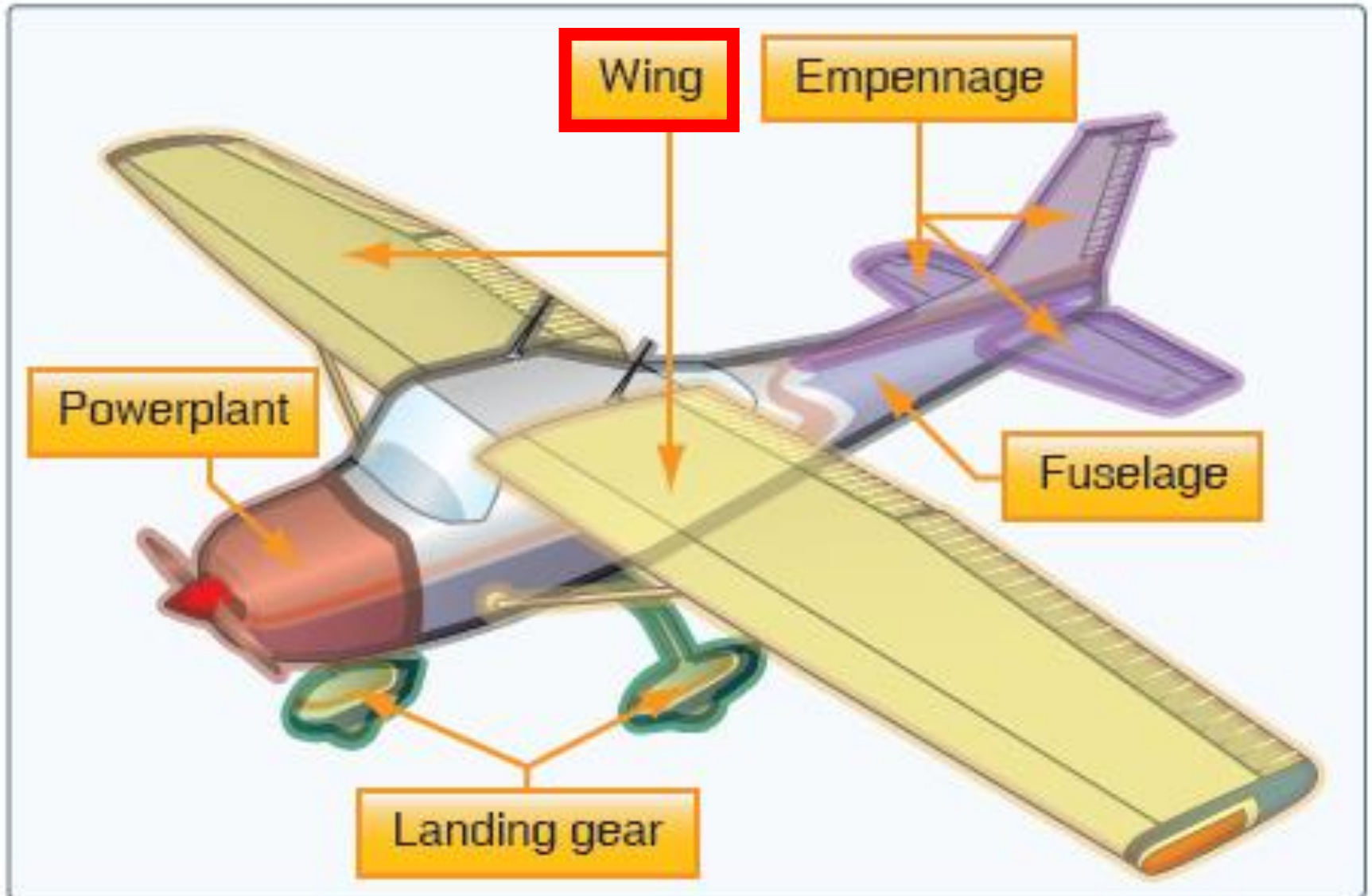
Elevator



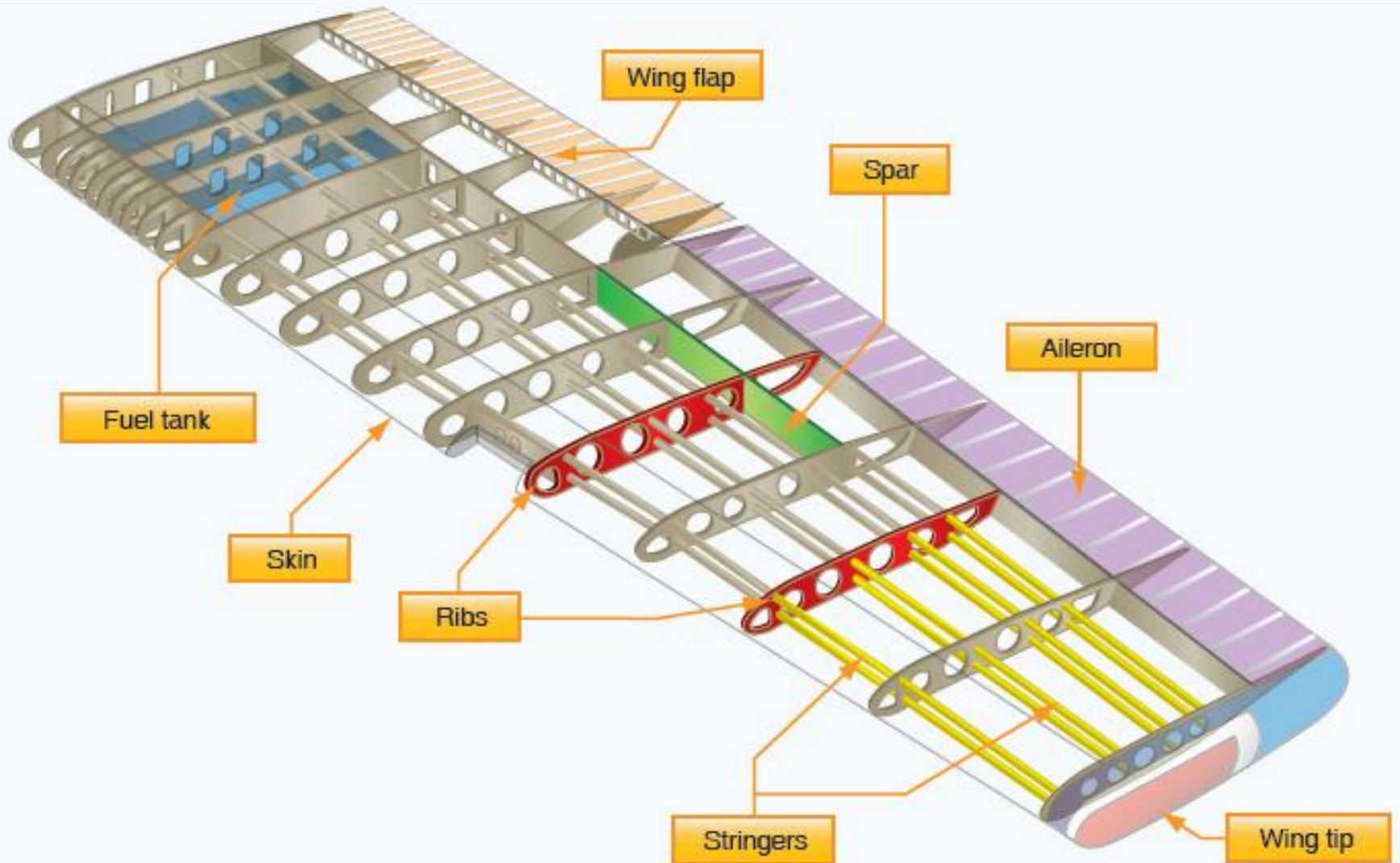
Stabilator vs. Elevator



Basic Airplane Components



Wings



Wing Configurations: High Wing Monoplane



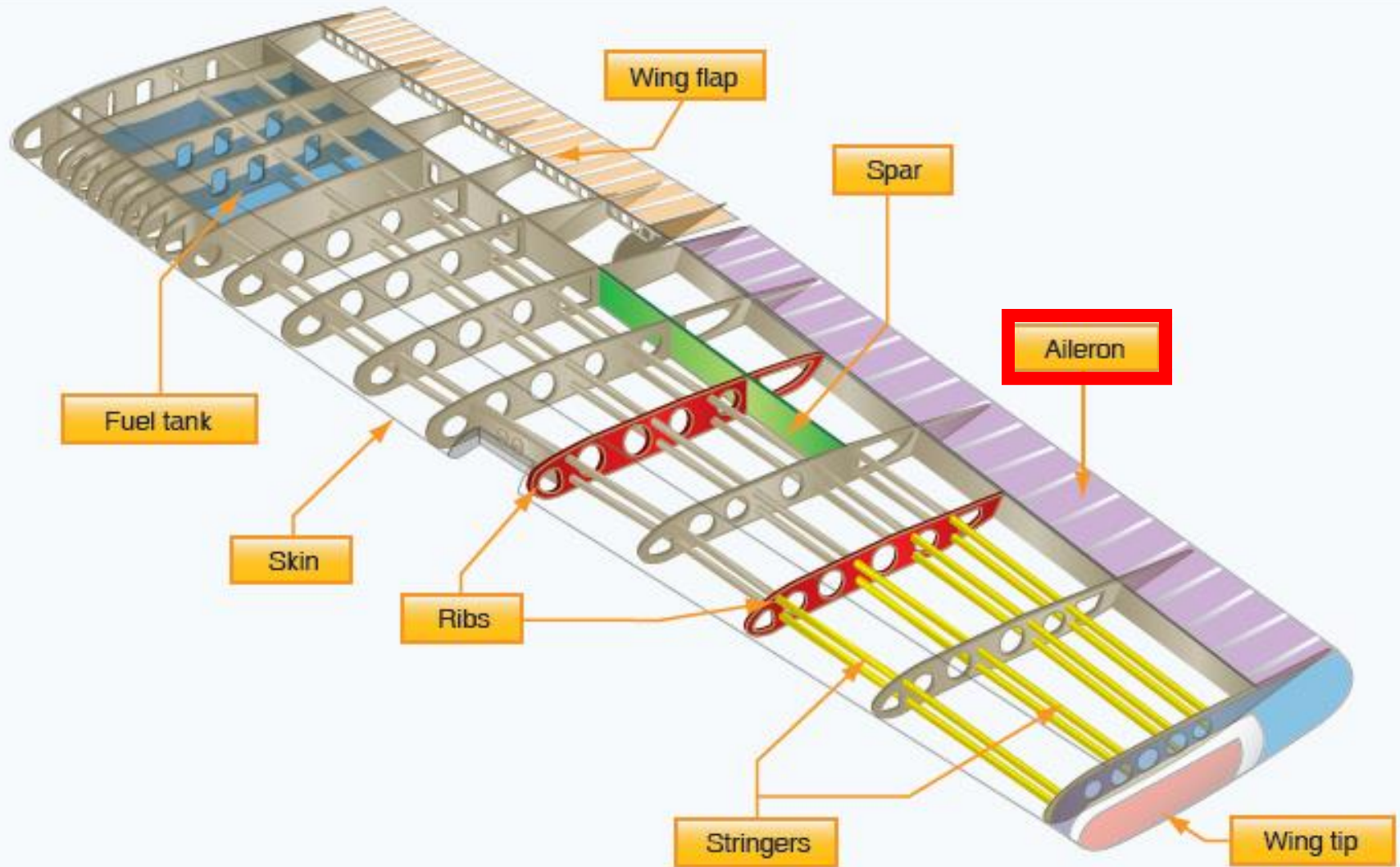
Wing Configurations: Low Wing Monoplane



Wing Configurations: Biplane

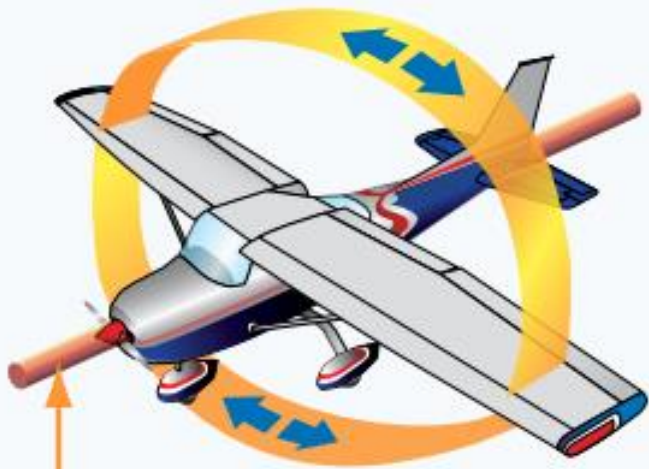


Wings: Ailerons

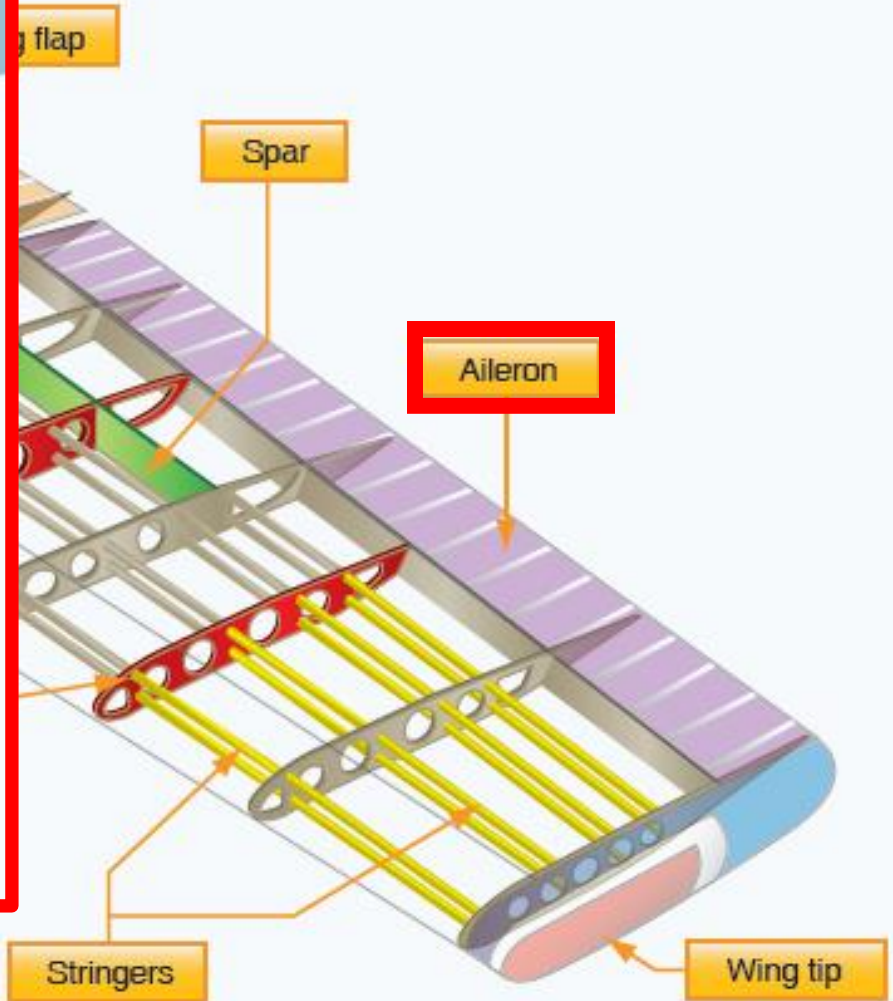


Wings: Ailerons

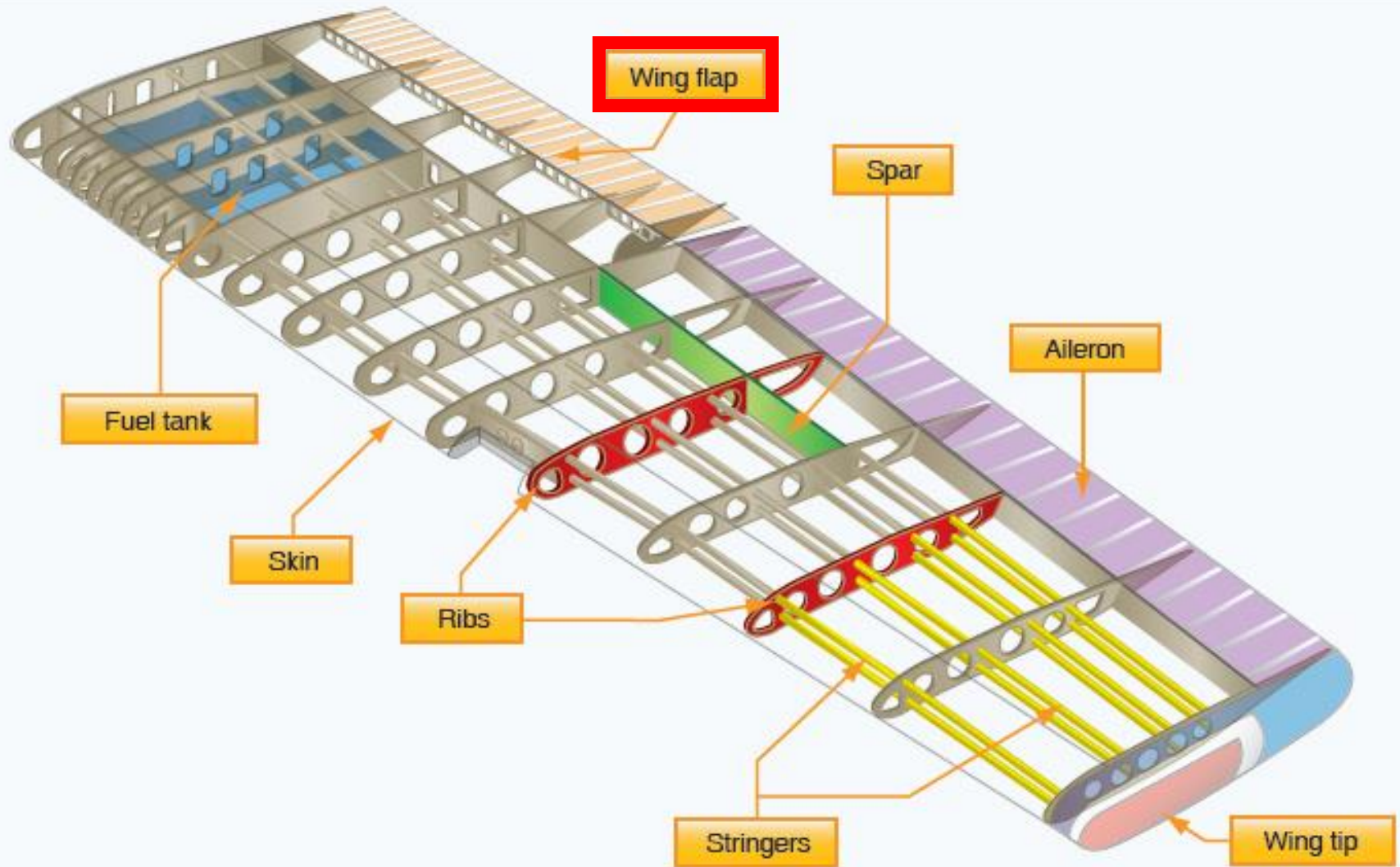
Rolling









Longitudinal axis



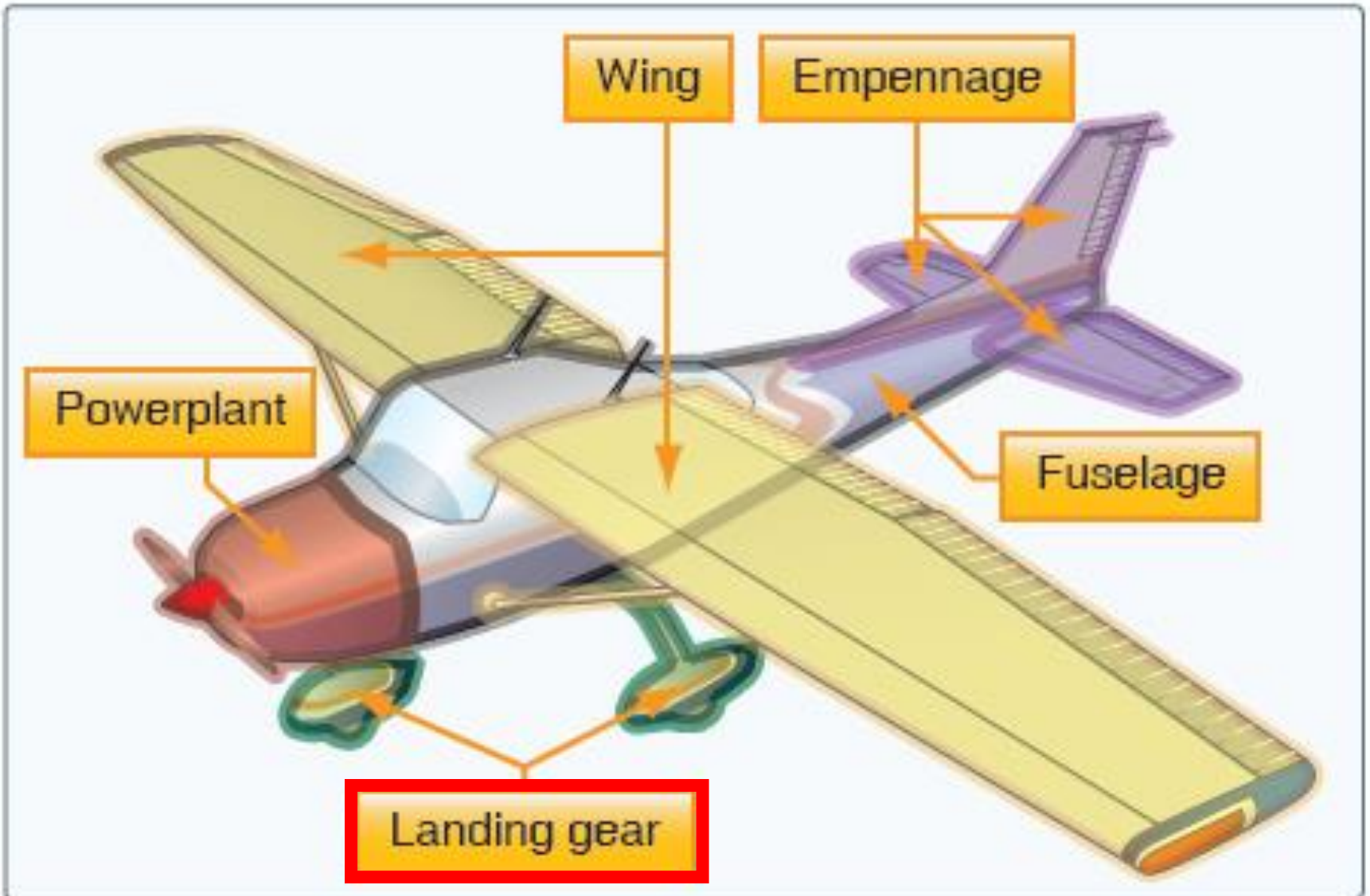
Wings: Flaps



Wings: Flaps

<p data-bbox="465 339 639 368">Basic section</p>  A diagram of a basic wing section, showing a smooth, curved airfoil profile with a leading edge on the left and a trailing edge on the right. The wing is light brown with several dark brown spots representing internal structure.	<p data-bbox="1263 339 1412 368">Slotted flap</p>  A diagram of a wing section with a slotted flap. The flap is extended downwards and backwards, creating a gap between the flap and the main wing body. Blue arrows indicate the flow of air passing through the slot, which helps to delay flow separation and increase lift.
<p data-bbox="490 616 614 645">Plain flap</p>  A diagram of a wing section with a plain flap. The flap is extended downwards and backwards, but it is not slotted. The leading edge of the flap is rounded.	<p data-bbox="1263 616 1412 645">Fowler flap</p>  A diagram of a wing section with a Fowler flap. The flap is extended downwards and backwards, but it is not slotted. The leading edge of the flap is flat and aligned with the trailing edge of the main wing body.
<p data-bbox="490 893 614 922">Split flap</p>  A diagram of a wing section with a split flap. The flap is extended downwards and backwards, and it is split into two halves. The leading edge of the flap is flat and aligned with the trailing edge of the main wing body.	<p data-bbox="1213 893 1456 922">Slotted Fowler flap</p>  A diagram of a wing section with a slotted Fowler flap. The flap is extended downwards and backwards, and it is slotted. The leading edge of the flap is flat and aligned with the trailing edge of the main wing body. Blue arrows indicate the flow of air passing through the slot.

Basic Airplane Components



Landing Gear: Tricycle



Landing Gear: Tailwheel



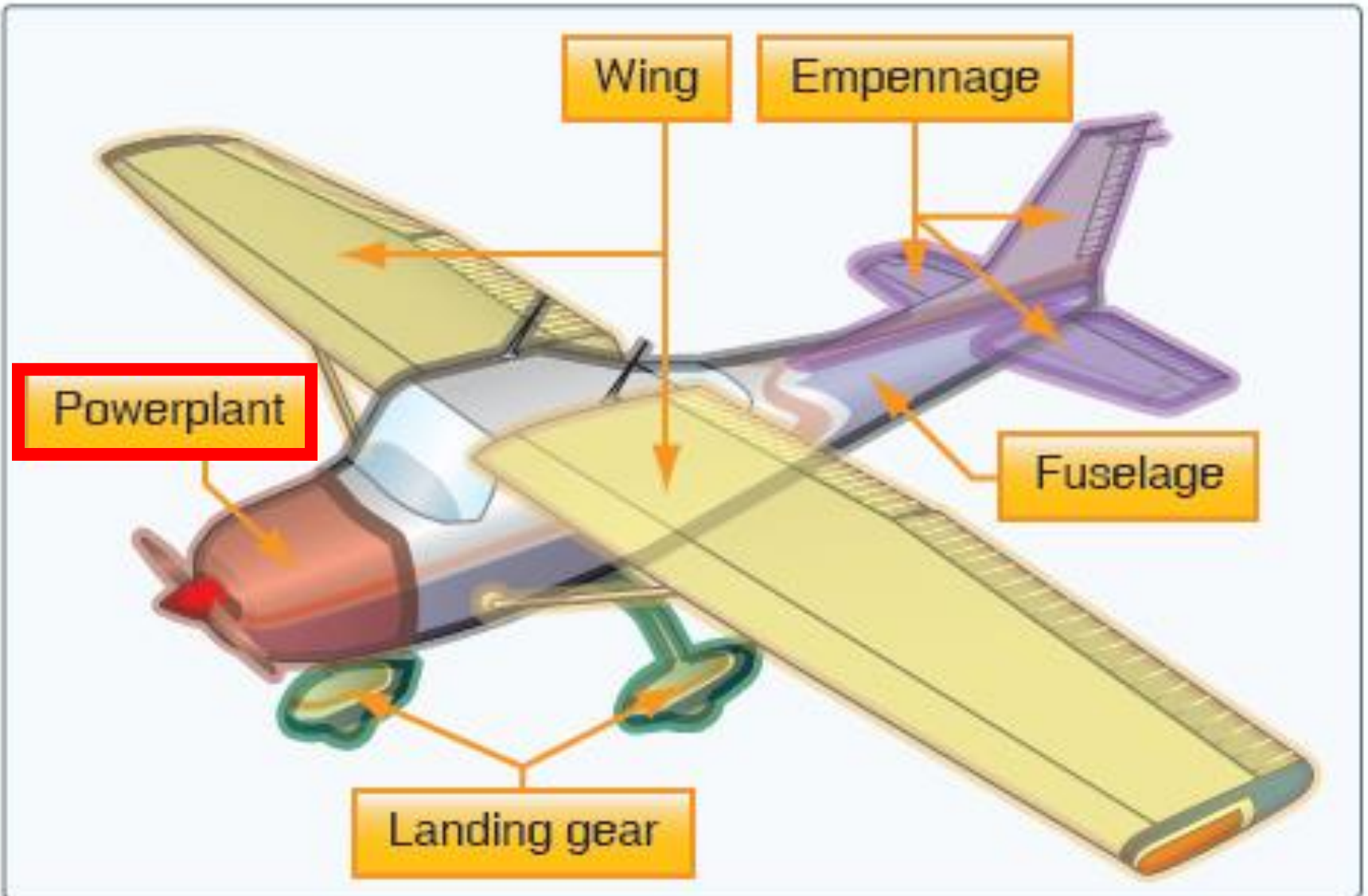
Landing Gear: Floats



Landing Gear: Skis



Basic Airplane Components



Firewall Forward

