

# Seaplane

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## About Seaplane:

- It is any of a class of aircraft that can **land, float, and take off on water**.
- It is a **fixed-winged aeroplane** designed for taking off and landing on water. It offers the public the speed of an aeroplane with the utility of a boat.
- **Types of Seaplane**
  - **Floatplanes:** Floatplanes are the **most common type of seaplane**. They have floats, which are buoyant structures, permanently attached to the fuselage. Floatplanes rely solely on water for takeoff and landing, making them ideal for flying over lakes, rivers, and coastal areas.
  - **Flying Boats:** Unlike amphibious seaplanes and floatplanes, flying boats have their **hull entirely designed to float on water**. These aircraft have a boat-like shape, with the main body of the plane floating on the water's surface. Flying boats are capable of **carrying larger passenger loads** and have the capability to take off and land in rougher water conditions.

## Advantages of seaplanes

- They can fly low and have access to both land and sea, they are perfectly suitable for **coastal surveillance**.
  - They can observe coastal activity such as **border control, investigations or weather anomalies**.
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### Q.1 What is Bernoulli's principle?

Bernoulli's principle states that within a flowing fluid, an increase in velocity occurs simultaneously with a decrease in pressure. In aviation, this principle explains how faster air over an aircraft's curved wings results in lower pressure above the wings, generating lift and enabling the aircraft to fly.

**Source:** [Kerala to launch seaplane service to boost tourism connectivity](https://vajiramandravi.com/current-affairs/seaplane/)

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