

Grade 6 - Flight

# AIRPLANE PARTS AND DESIGN ELEMENTS

Small fuselage



Medium fuselage



Large fuselage



Short wings



Long wings



Thick airfoil



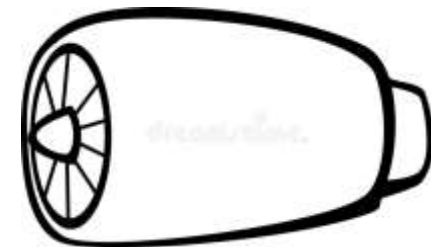
Thin airfoil



Propeller



Turbine engine



Wheels



Water landing gear (floats)



Ski landing gear



### Small fuselage

- Load carrying capacity: +200 kg
- Maneuverability: high
- Weight: +1000 kg
- Range: +600 km

### Medium fuselage

- Load carrying capacity: +10 tonnes
- Maneuverability: high
- Weight: +40,000 kg
- Range: +12,000 km

### Large fuselage

- Load carrying capacity: +80 tonnes
- Maneuverability: low
- Weight: +80 tonnes (80,000 kg)
- Range: +10,000 km

### Short wings

- Load carrying capacity: +200 kg
- Maneuverability: high
- Weight: +400 kg

### Long wings

- Load carrying capacity: +20 tonnes
- Maneuverability: low
- Weight: +2 tonnes (2000 kg)

### Thick airfoil

- Load carrying capacity: +1 tonne
- Speed: +200 km/h

### Thin airfoil

- Load carrying capacity: 500 kg
- Speed: +500 km/h

### Propeller

- Speed: +200 km/h
- Weight: +500 kg
- Range: +800 km

### Turbine Engine

- Speed: +500 km/h
- Weight: +1 tonne (1000 kg)
- Range: +5000 km

### Wheels

- Landing on land only
- Weight: +1 tonne

### Water skis

- Landing on water only
- Weight: +300 kg

### Snow skis

- Landing on land and snow
- Weight: +100 kg