

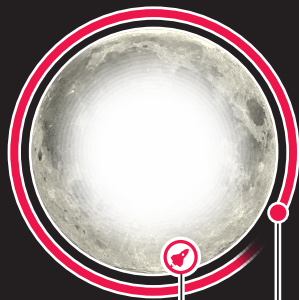
Chandrayaan 3 lunar mission

India's Chandrayaan 3 mission carries a lander and rover with scientific payloads to analyse the chemical and geological composition of the lunar surface



Vikram lunar lander: Carries Rover plus four scientific payloads

Mass: 1,752kg, including 26kg Rover



100km circular polar orbit

Lander payloads: Seismometer to detect moonquakes, experiment to measure thermal conductivity and temperature, probe to measure changes in near-surface plasma – ions and electrons – and NASA passive laser experiment

Orbiter: Transports lander and rover to lunar orbit.
Mass: 2,148kg

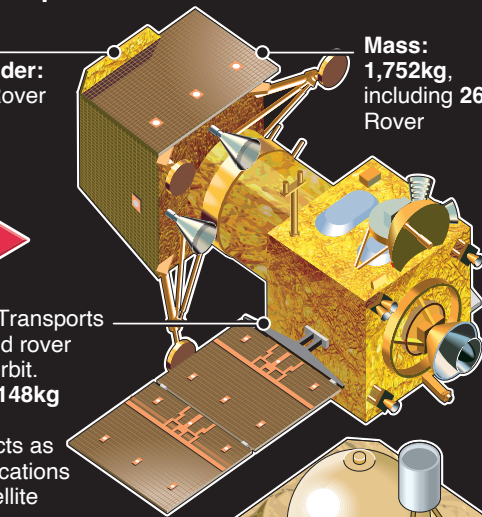
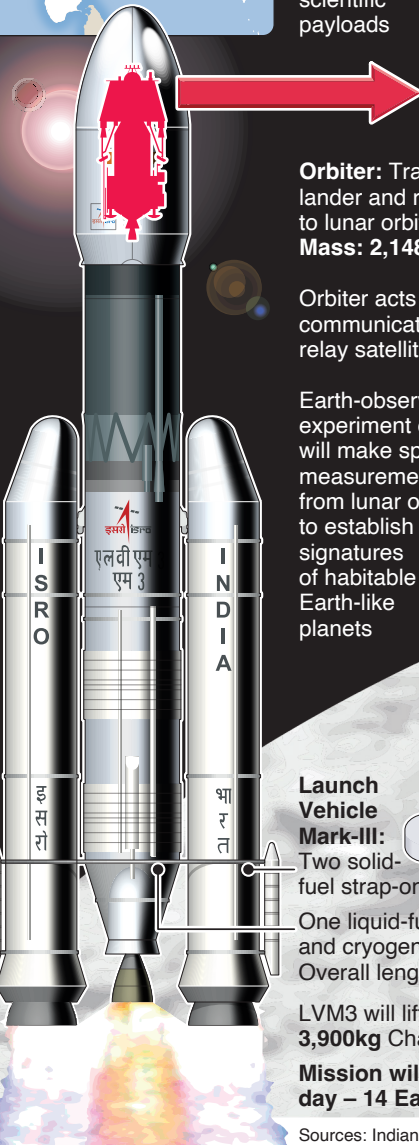
Orbiter acts as communications relay satellite

Earth-observing experiment on orbiter will make spectral measurements from lunar orbit to establish signatures of habitable Earth-like planets

Launch Vehicle Mark-III: Two solid-fuel strap-on boosters
One liquid-fuel core stage and cryogenic upper stage.
Overall length: 43.5m

LVM3 will lift off carrying 3,900kg Chandrayaan 3

Mission will last one lunar day – 14 Earth days



Vikram lunar lander

Rover named Pragyan

Rover payloads: Spectrometer and spectroscope to derive elements present in lunar soil and rocks around landing site

