

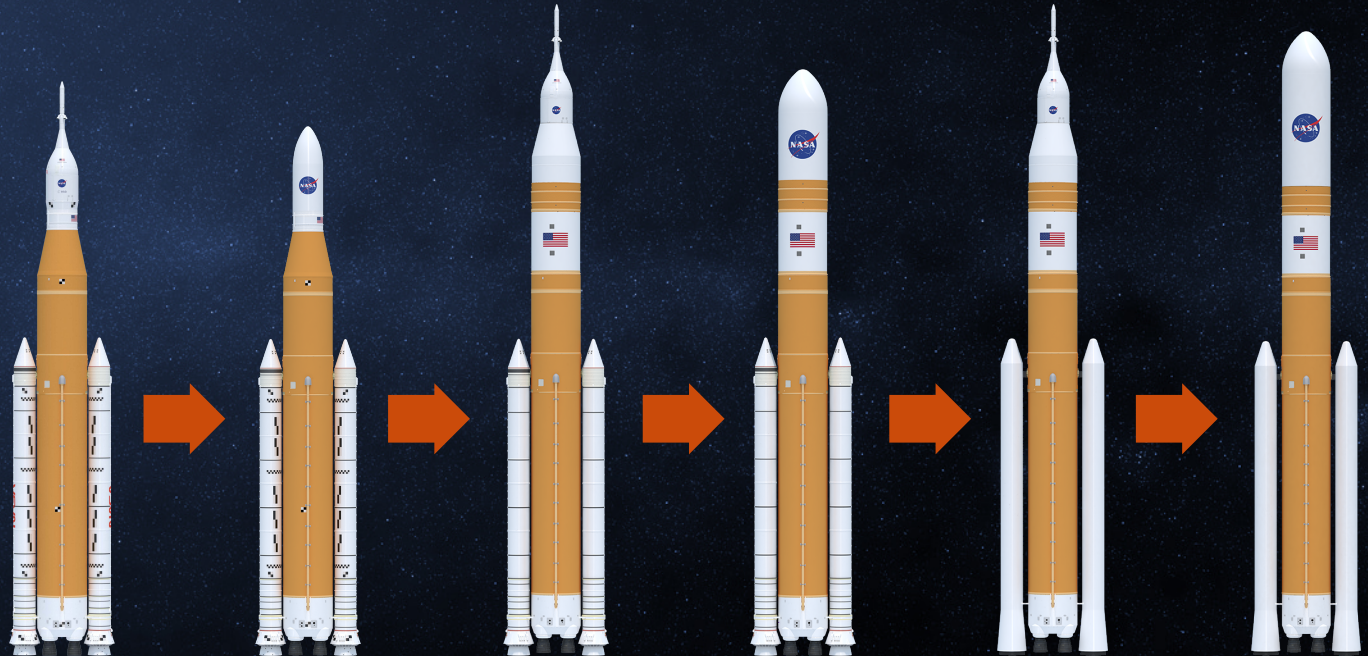
Space Launch System Lift Capabilities



| | | | | | | |
|---------------------|--|---|--|--|--|--|
| Payload to TLI/Moon | > 27 t (59.5k lbs) | > 27 t (59.5k lbs) | 38 t (83.7k lbs) | 42 t (92.5k lbs) | > 43 t (94.7k lbs) | > 46 t (101.4k lbs) |
| Payload Volume | 516 ft ³ (14.6 m ³) | 8,118 ft ³ (229.9 m ³) | 10,100 ft ³ (286 m ³)** | 21,930 ft ³ (621.1 m ³) | 10,100 ft ³ (286 m ³)** | 34,910 ft ³ (988 m ³) |

Trans-Lunar Injection (TLI) is a propulsive maneuver used to set a spacecraft on a trajectory that will cause it to arrive at the Moon. A spacecraft performs **TLI** to begin a lunar transfer from a low circular parking orbit around Earth.

The numbers depicted here indicate the mass capability at the Trans-Lunar Injection point.



SLS Block 1 Crew

SLS Block 1 Cargo

SLS Block 1B Crew

SLS Block 1B Cargo

SLS Block 2 Crew

SLS Block 2 Cargo

| | | | | | | |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Maximum Thrust | 8.8 M lbs | 8.8 M lbs | 8.9 M lbs | 8.9 M lbs | 9.5 M lbs | 9.5 M lbs |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|

** Not including Orion/Service Module volume



Space Launch System Configurations

