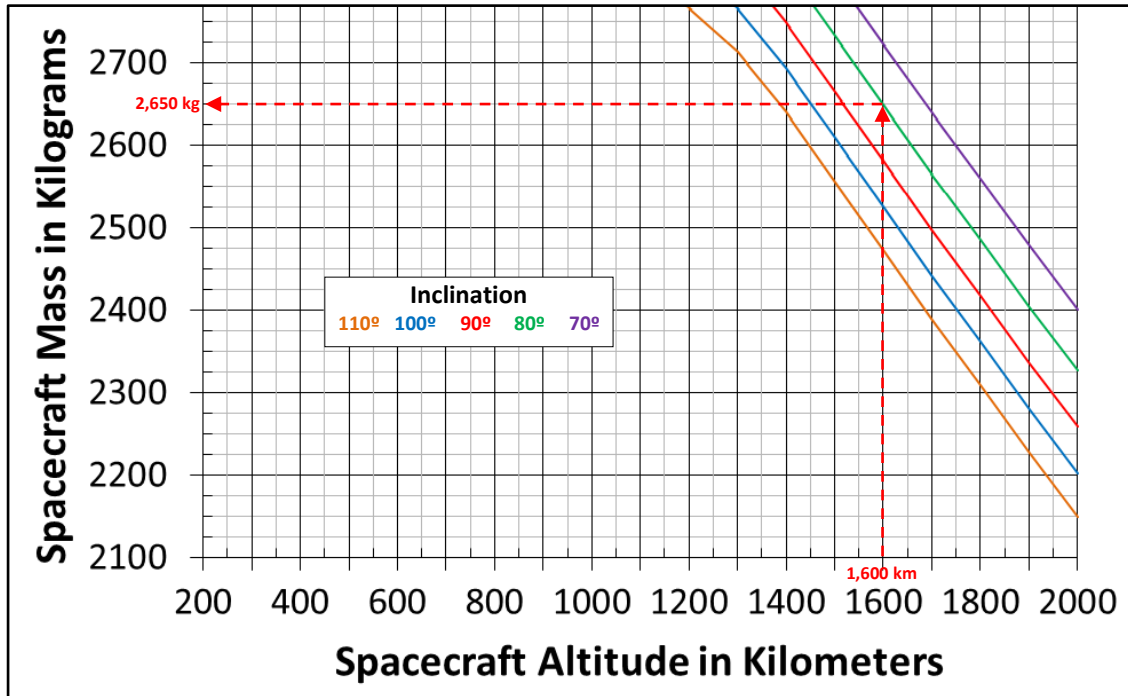


STELLAR XPLORERS

How to Use the Launch Vehicle Performance Charts



First, find the satellite's altitude along the X-Axis (Spacecraft Altitude in Kilometers) of the chart. Plot a vertical line from that spot on the X-Axis. Look for the points where the vertical line intersects the solid lines for Circular Orbits. Select the line that represents the Inclination you wish to use. Plot a horizontal line to the left that crosses the Y-Axis (Spacecraft Mass in Kilograms]. Where the horizontal line crosses the Y-Axis will determine the maximum mass for that Circular Orbit.

Using the Launch Vehicle Performance Chart above, we see that this rocket can launch a satellite into a 1,600 km Circular Orbit with an Inclination of 80° that weights 2,650 kg.