

# Green Eggs and C11 Engine Specs

## Calculus II

College of the Atlantic. Feb 17, 2025

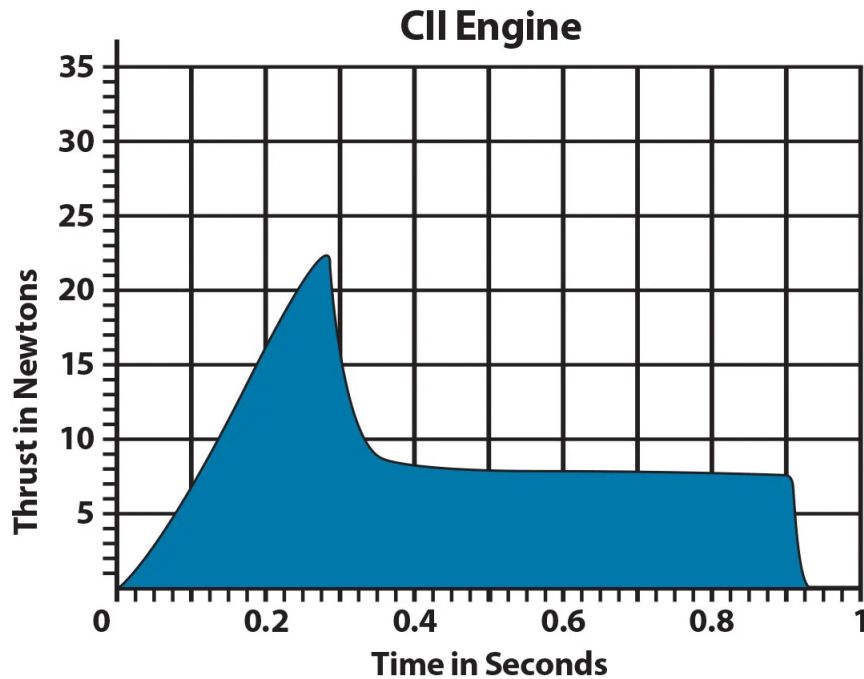


Figure 1: Thrust curve for C11 rocket engine: <https://estesrockets.com/products/c11-0-engines>.

## Thrust Chart Explanation

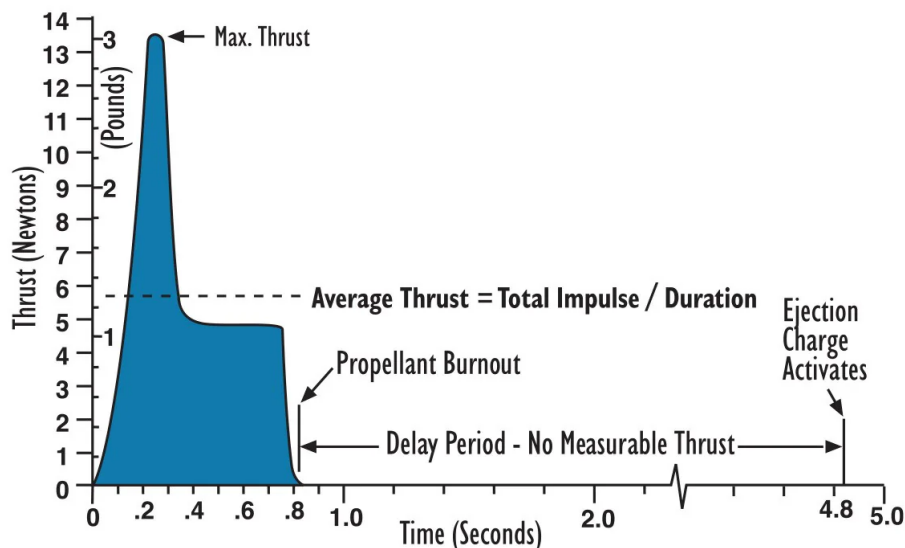


Figure 2: A general thrust curve for a model rocket engine, not necessarily the C11.

# Technical Specifications










 <b>Total Impulse</b> 10.00 N-sec	 <b>Length</b> 2.75 in. (7 cm)
 <b>Time Delay</b> None	 <b>Diameter</b> 24 mm
 <b>Max Lift Weight</b> 6.0 oz (170 g)	 <b>Weight</b> 1.03 oz. (29.2 g)
 <b>Max Thrust</b> 22.10 Newtons (4.9 lbs)	 <b>Propellant Weight</b> 0.44 oz (12.4 g)
 <b>Thrust Duration</b> 0.80 Seconds	

Figure 3: Specs for the C11 engine.

# Technical Specifications








 <b>Recommended Engines</b> w/ egg : C11-3, D12-3 w/out egg : C11-5, D12-5	 <b>Length</b> 23.6 in. (59.9 cm)
 <b>Launch System</b> Porta-Pad II	 <b>Diameter</b> 1.8 in. (46 mm)
 <b>Projected Max Altitude</b> w/ egg : 825 ft. (251 m) w/out egg : 1050 ft. (320 m)	 <b>Weight</b> 3.50 oz. (99.2 g)
 <b>Recovery System</b> 18 in. (45.7 cm) Parachute	 <b>Fin Material</b> Laser Cut Balsa Wood

Figure 4: Specs for the Green Eggs rocket.