

Worksheet #6 – Engine Factors

Use the Engine data sheets for the following engines, and links to useful websites to answer the questions.

G138-7T G53-7FJ G64-7W G77-7R G76-7G G75-7M G80-7T

Explain the designation of an engine

What does the G indicate at the beginning of each designation? (1)

What does the 138,53,64,71, etc... indicate after the G? (1)

What does the -4, -5, -7 indicate? (1)

Use the resources found on the Rocket Worksheets webpage for this worksheet to answer the following questions. These spreadsheets are specific to the rocket that you are building. (10 pts ea engine)

	G53-7FJ	G64-7W	G75-7M	G76-7G	G77-7R	G80-7T	G138-7T
Single Reloadable							
Max Thrust							
Impulse							
Burn time							
Delay time							
Burn+Delay							
Time to apogee from spreadsheet							
Apogee from spreadsheet							
Apogee from Aerotech							
Smoke							
Comments: 1.Compare Burn+Delay and spreadsheet time. 2.Will this engine work? 3.Change delay time?							

List some important differences between single-use and reloadable engines? (2)

List some important differences between engines with a short burn time vs. a long burn time? (2)

Which engine would you pick for your rocket? Explain your decision. (3)