

Your rockets name _____

Your Name _____

- Construct and launch a rocket assembled in Mr. Courtot's science class (25pts. If rocket is assembled according to directions, trajectory is vertical, and recovery system works as intended)

○ My Score = _____ (due day after launch)

- Complete a vocabulary list (word plus definition... see list below) – 20pts

| | | | |
|---------------|----------------------|----------------------|-------------------------------|
| drag | thrust | lift | Bernouilli's principle |
| apogee | trajectory | acceleration | terminal velocity |
| launch | igniter | propellant | recovery system |
| force | baseline | delay element | Newton's 3rd Law |
| mass | Coanda effect | fluid | inertia |

- Choose two of the following and write a complete and thorough explanation for each topic (one or two paragraphs).

- Winglets and vortices
- Rocket roll
- Center of gravity

- Create a timeline of important space travel events beginning with us landing on the moon. Include 10 dates and an explanation for each date.

- List 10 things that are spin-offs from the NASA space program. Next to each, write one sentence describing how that spin-off has or will impact your life.

- Calculate the apogee of two rockets, showing your math, the names of the rockets, and the owners of the rockets. (10 pts) My score = _____ (Due day after launch)

| | | |
|----------------|-------|-------|
| Name of rocket | _____ | _____ |
| Name of owner | _____ | _____ |
| Apogee | _____ | _____ |

Show your math here! B = _____
T = _____

B = _____
T = _____

- Take a quiz at the end of the unit covering flight vocabulary and concepts.

