First Priority:

https://spaceflightsystems.grc.nasa.gov/education/rocket/rktfor.html

Created the flight of the rocket.

Forces affecting a rocket:

**Thrust:**  
The force from the rocket engine. Use AddForceAtPosistion. Use a constant thrust force  
**Lift:**  
The aerodynamics of the rocket. Caused by the wings. Use AddForceAtPosition  
**Weight:**   
(Basically Gravity)  
Use AddForce. Weight must decrease during flight, due to fuel consumption.  
**Drag:** Wind Resistance, will be larger the faster we move.

Second Priority:

<https://spaceflightsystems.grc.nasa.gov/education/rocket/rktstab.html>

https://spaceflightsystems.grc.nasa.gov/education/rocket/gimbaled.html

Gimbaling the thruster.

Implement small random gusts of wind.

Rotating the thruster in opposite direction of the current motion.

Forces needed:

**Wind force**

Third Priority:

Stabilising by aerodynamics

Rotating the wings to change flight direction.

Calculate what direction each wing must be in.

Fourth Priority:

Make correct launch physics

If anything should be implemented.