

# This just happened in the past few days!!

NASA, SpaceX launch historic Falcon 9 flight

[https://www.youtube.com/watch?v=W36QKRS\\_t5k](https://www.youtube.com/watch?v=W36QKRS_t5k)

Tour from Space: Inside the SpaceX Crew Dragon Spacecraft on Its Way to the Space Station

<https://www.youtube.com/watch?v=llblzbOStt4>

SpaceX's Crew Dragon capsule arrives at International Space Station

<https://www.youtube.com/watch?v=2jx6hWd5fhA>

## Spacecraft Design Assignment

**Most spacecraft have parts that do certain jobs. Here are some of the parts and jobs they do: Your assignment is to make your own spacecraft containing the following:**

- Ø A container (like a box) to be the body of the spacecraft and hold the computer and electronics. This part is called the spacecraft "bus."
  - Ø Something to keep the computer and electronics warm out in cold space (for example, a space blanket).
  - Ø Something to supply electric power (for example, solar panels).
  - Ø Some instruments to make science measurements or take pictures.
  - Ø Some way to communicate with Earth (both to send data and to receive commands).
  - Ø Some way to slow down, speed up, or change the direction of the spacecraft (like thrusters) to keep it on course or in the right orbit.
  - Ø Something to let the spacecraft know where it is and where it is going (for example, a star finder camera; for Earth orbiters, it might be a receiver for signals from the network of Global Positioning Satellites).
- There are many other parts, but the ones above are some of the basics.