

- Discuss the History of Manned Space Exploration

Yuri Gagarin was the first man in space

Neil Armstrong was the first American on the moon, Buzz Aldrin the 2nd

- Introduction to Model Rockets

The 5 types of homemade rockets

3 types of certification

- Identify Canadian Astronauts

Julie Payette - The previous governor general of Canada

Chris Hadfield - Was on the ISS, spread awareness/information about space, first rock concert in space?

Marc Garneau - has a school named after him in Toronto, Navy Captain

- Discuss the Canadian Space Program

They have internet, introduced 2010, but it's slow

Use tablets/capsules for brushing teeth

Canadarm, Canadarm2

- Describe Elements of the Night Sky

Satellites are part of the night sky, can be natural or manmade

Planets,

- What are Star Constellations and How to Find Them

There are different types of star constellations

How many official constellations are there? 88

Big Dipper, aka Ursa Major, Orion, Little Dipper, 12 zodiac constellations

- Describe the layers of the atmospheres on our planet

Stratosphere, troposphere, thermosphere, mesosphere, exosphere

- Alternate Habitats in the Universe

O'Neill cylinder, Alpha Centauri system, closest star to us is Proxima Centauri

- Classifying Stars

Nebula, main sequence, red giants, neutron star/black hole/red dwarf,

H-R diagram shows the classifications of star brightness and heat

OBAFGKM - O is the brightest and hottest, M is the dimmest, and heat

- Different Types of Rocket Programs

Mercury, Gemini, Apollo, Skylab, Apollo-Soyuz,

- The Dwarf Planets of the Solar System

5 Pluto, Ceres, Makemake, Eris, Haumea

Orbit around a star

have enough mass to round itself

Not have enough mass to clear its orbit

- Messier Objects

110 The Crab nebula, Andromeda galaxy

- Orbiting/Getting to the Moon

- The History of the Universe

- The Electromagnetic Spectrum

- The ISS

- Possible Endings to the Universe

- Life on the Space Station

- Unknown Occurrences in Astronomy

- Meteors, Asteroids, Comets

- Human Missions to Mars

- How GPS's Work

- The Apollo Program

- Model Rockets

- Reusable Rockets

- Power Sources in Space and on Other Planets