Manned Space Exploration

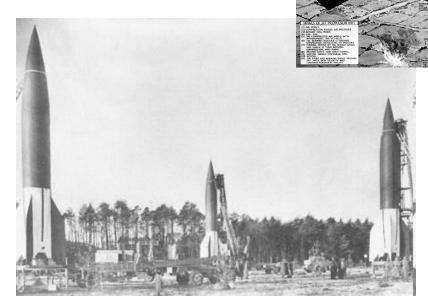
From Start to Gemini

BTW, there are a ton of interesting videos I've ripped covering many of the space flights covered in this PowerPoint...I highly recommend you watch them! Here's the ... link

The Space Race

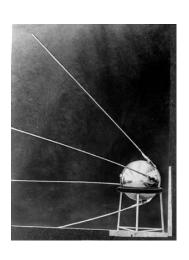
- USA & Soviet Union were allied to defeat Hitler during WWII.
- Germany had all good rocket scientists.
- Once we defeat Hitler, we take ½ & USSR takes ½ of the rocket scientists so we can make bigger, better weapons.
- Cold War starts at the end of WWII.
- Arms race starts between US & USSR





USSR Takes the Lead

- USSR takes the lead by:
 - 1st Satellite in space Sputnik 1 1957
 - 1st living thing in space Laika the dog 1957
 - 1st person in space & to orbit Yuri Gagarin -1961
 - 1st woman in space & to orbit Valentina Tereshkova -1963







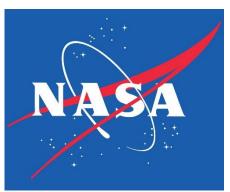


US Plays "Catch Up"

- We get rocket scientist Werner Von Braun from Germany after WWII
- JFK establishes NASA -National Aeronautics and Space Administration
- Our rockets are unreliable explode often







We decide to go..

Kennedy makes his famous speech







USA Manned Space Program

Program # of Astronauts

Mercury One astronaut

Gemini Two astronauts

Apollo Three Astronauts

Shuttle 5-7 astronauts

International Varies

Space Station

Purpose

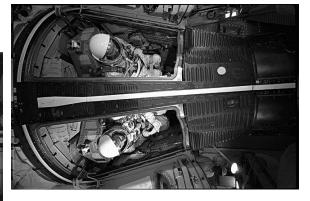
To see if we could survive or live in space

To see if we could work and Rendezvous

Land safely and explore the moon

Cargo ship to transport into low Earth orbit

Permanent Manned presence in space









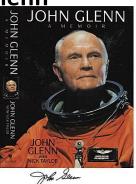
Project Mercury

- Purpose: See if man could survive in space
- 1 astronaut per flight
- Original Mercury 7 Astronauts: Alan Shepard, Gus Grissom, John Glenn, Wally Schirra, Scott Carpenter, Gordon Cooper and Deke Slaton
- 1st American in space: Alan Shepard
- 2nd American in space: Gus Grissom

• 3rd American in space & 1st in orbit: John Glenn













Project Gemini

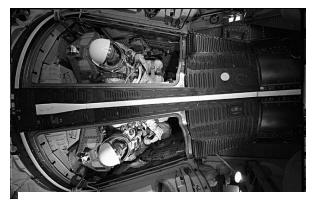
- Purpose: To see if we could work and Rendezvous
- 2 astronauts per flight
- 12 Gemini flights, 10 were manned
- Major objectives achieved
 - rendezvous and docking with other orbiting vehicles
 - maneuver the docked vehicles in space
 - Space walk
 - Perfect reentry & landing spacecraft



Gemini 4 - ED White: 1st USA to Space Walk



Gemini 8 – Docked but tumbled out of control, crew almost lost



Gemini 3 – 1st 2 manned flight (Grissom & Young)



Gemini 6 & 7 – in space at same time, dock together successfully

End of Part 1