

Name: _____



Welcome to the National Museum of the United States Air Force Fourth Building!

Your first stop will be the Space Gallery. Enter the 4th building and locate the large space shuttle directly ahead. This is the **CCT Shuttle Trainer**.

1. Crew members used the CCT to practice on-orbit tasks training for _____ escapes and evaluate _____ issues.

Turn to your right and walk past the Space/Research and Development STEM Learning Node and locate the black **X-15A-2** to your left.

2. The purpose of the X-15 was to fly high and fast, testing the machine and subjecting pilots to conditions future _____ would face.

Turn around and locate the large booster rocket straight ahead. This is the **Titan IVB**.

3. First launched in 1959, the Titan family of boosters served for nearly 50 years putting _____ and _____ into orbit.

Turn to your left and locate the spacecraft surrounded by Plexiglass. This is the **Apollo 15**.

4. Apollo 15's mission focused mainly on _____ science and was the 1st mission to use a lunar rover vehicle.

Continue walking toward the end of the hangar and notice several artifacts to your left. This is the **HEXAGON H-9 Film Recovery Vehicle**. Next to it is the **HEXAGON H-9 Reconnaissance Satellite**.

5. During the Cold War, 19 HEXAGON missions imaged _____ million square miles of Earth's surface between 1971 and 1986.

Turn to your right and continue forward. Turn left at the Research and Development Gallery sign and continue straight ahead toward the plane in the back corner. This is the **P-80R**.

6. Col. Albert Boyd flew this P-80R to a new world's speed record of _____ mph, returning the record to the United States after nearly 24 years.

Turn to your left and continue through the gallery. Go around the nose of the X-3 and locate the small silver plane on your left. This is the **McDonnell XF-85 Goblin**

7. The McDonnell Aircraft Corporation developed the XF-85 Goblin " _____ " fighter to protect B-36 bombers flying far beyond the range of conventional escort fighters.

Name: _____

*Turn right and continue through the Research and Development Gallery. The large white plane that ranges from the end of the hangar is the **XB-70 Valkyrie**. Notice the words located on the plane itself.*

8. List the names of two United States Air Force pilots that flew the XB-70 Valkyrie

*Locate the black plane on your left. This is the **YF-12A***

9. The YF-12 was developed in the 1960s as a high-altitude, Mach 3 interceptor to defend against _____ bombers.

*Turn right and locate the smooth gray plane on the left hand corner. This is **Tacit Blue**.*

10. Using advanced sensors, Tacit Blue could continuously monitor enemy forces (even through _____) and provide timely information through data links to a ground command center.

*Next, locate the flying saucer look alike located on the right. This is the **Avrocar**.*

11. The Avrocar was the result of a/an _____ effort to develop a supersonic vertical and landing (VTOL), later taken over by the United States Army and United States Air Force.

*Continue through the Research and Development Gallery and locate the **NF-16A** on your left.*

12. One of AFTI program's most significant achievements was the first ever use of all-electric " _____ " flight controls with no hydraulic or mechanical backups to move the aircraft's control surfaces.

*Continue through the Research and Development Gallery until you enter the Global Reach Gallery. Turn right and locate the **Fairchild C-82A Packet**.*

13. The Fairchild C-82A Packet was used primarily to transport two things. What were they?

*Turn around and walk around to the back of the **Lockheed C-130E**.*

14. List two missions the Lockheed C-130E was used for:

*Turn left and walk across the Global Reach Gallery to the open end of a large cargo plane. This is the "**Hanoi Taxi**".*

Name: _____

15. The Starlifter originated from a 1969 requirement for a fast, strategic transport aircraft that would serve as a "_____ " for moving US Army troops rapidly anywhere in the world.

Turn around and enter the Presidential Gallery. To your left is the "Sacred Cow". Enter the airplane and move towards the back.

16. What is located to your left when facing the exit stairs from inside the "Sacred Cow"?

Exit the Sacred Cow and turn right towards the entrance of the "Independence".

17. Which president named this plane the "Independence?"

Walk through the Independence and turn left. Approach the plane located directly ahead. This is the Lockheed VC- 140B Jetstar.

18. What did President Lyndon B. Johnson sometimes refer to the Jetstars as?

Locate the "Columbine III" on your right.

19. President Eisenhower named his third Constellation, "Columbine III", after the state flower of _____ in honor of his wife Mamie.

Enter and explore the "Columbine III". When you exit turn left and locate the entrance of the SAM 26000 and climb the stairs to enter. Continue through the plane until you reach the conference room and take note of the sign that accompanies it.

20. Inside the SAM 26000, what color is the phone that allowed the president to make phone calls anywhere in the world while in flight?

Thank you for visiting the National Museum of the United States Air Forces and our Fourth Building!

Name: _____

Answers

1. Emergency; Engineering
2. Astronauts
3. Astronauts; Satellites
4. Lunar
5. 877
6. 623.753
7. Parasite
8. Answers may include: Col. Joe Cotton; Maj. Carl Cross; Lt. Col. Emil Sturmthal; Lt. Col. Fitz Fulton
9. Supersonic
10. Clouds
11. Canadian
12. Powered by Wire
13. Cargo; Troops
14. Answers may include: Aeromedical Evacuation; Reconnaissance; gunship; mid-air refueling of helicopters; mid-air space capsule recovery; Search and Rescue
15. Work Horse
16. Elevator
17. Harry Truman
18. Air Force One Half
19. Colorado
20. Beige