



Ted Alejandre, County Superintendent

San Bernardino County

Superintendent of Schools

Transforming lives through education

Monday, May 18

12:00pm

History Detectives – 4th thru 8th grade

The HISTORY DETECTIVES launches into space for an exhilarating hour exploring the excitement, promise and ingenuity that fueled America's foray into space exploration. First, detective Tukufu Zuberi tracks a scrap of metallic Mylar that could be one of America's early satellites - balloons - in the segment "Satelloon."

Then, in the segment "Moon Museum," Gwendolyn Wright investigates the audacious notion that Andy Warhol's art may be on the moon.

Finally, in the "Space Boot" segment, Elyse Luray tries on a jury-rigged ski boot with a magnetic metal brick bolted to the bottom that may be one of the first prototypes for a NASA space boot.

After watching this episode, choose from the following questions and/or tasks to extend your learning

Question Box 1

- What did you learn from the program?
- Why was the first segment entitled "Satelloon"?
- Who is Andy Warhol?
- Describe the space boot prototype that was investigated in the episode.
- Why do you think it was important for NASA to experiment with different prototypes for space boots? Use evidence from the episode to support your opinion.

Question Box 2

- What is your analysis of the program? What evidence did you identify to support your analysis of this episode?
- Cite evidence from the TV Show to support your determination of the central idea.
- Provide an objective summary of the program.
- What interaction influenced future events? Provide evidence.
- Do you think the art chip is on the moon? What evidence from the program supports your opinion?
- Do you see value in space exploration? Why or Why not?

Box 3 (Tasks)

- Create a timeline of the Space Race. What does the future for space exploration hold?

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- Research the Corona satellite missions. What photos was it able to capture? Is any of it still classified?
- Draw a sketch of the space boot prototype. Label the different parts and write a brief description explaining the importance of each.
- There were over 300 people on the engineering team that worked on the Apollo 12 rocket. If each of them hid a personal item on the rocket weighing .2 lbs. How much additional weight would the rocket carry into space? How might that affect the mission?

Box 4 (Enrichment)

- Neil Armstrong walked on the moon in 1969. But 1968 was full of strife and issues. Research the year 1968. Briefly discuss the assassinations and what else happened in that year. What year is most like 1968 in your own life? Why?
- AM radio was a way that people from all over the US could connect and talk with each other. Instant messaging did the same thing in the 90s and early 2000's. Interview someone who has used AM radio or communicated with the instant messaging. What are their memories of communicating with new people?
- Research and discover some of the uses for Mylar today. Create a presentation showing what you discovered.

Box 5 (Extend/Real-Life)

- When most people think of outer space, NASA is the one of the first things we think of. However, if we look at all of the technology and parts needed to make space exploration and satellites possible it takes many parts, equipment, and packaging. California is the number one supplier with 710 companies providing parts and packaging to NASA. Click this link (it takes a while to load): <https://www.nasa.gov/specials/ESDSuppliersMap/>
 - Scroll down until you reach the list of California suppliers.
 - Write down each city that is in the Inland Empire. (If you get stuck as a family member for help)
- One of the companies on the list is Lift-It Manufacturing review their website here: <https://www.lift-it.com/> and answer the following questions:
 - What is their main product?
 - How would NASA use this product?
 - What other industries might use the equipment that they manufacture?
 - Click on the videos link and watch one video of your choice. Give a brief summary of the video.
- Other than manufacturing equipment what services do they offer?
- Would you be interested in pursuing a career in manufacturing? Why or why not?