

Spot the Space Spinoff



★ **Your mission:** Determine which of these commercially available items were made possible by space travel technology.

- ★ **Train for your mission:** People designed space travel technology to achieve the following:
- ★ Ensure good nutrition for the flight crew in space.
 - ★ Collect samples from the lunar surface.
 - ★ Efficiently capture and record scientific data via equipment and observation in hazardous conditions.
 - ★ Establish continual communications with ground control, when possible, while maintaining free movement of the flight crew.
 - ★ Create a safe environment in the shuttle.

Keep these in mind as you spot the spinoff!

★ **Complete your mission:** Place a ☒ in the box next to all space spinoffs!



☐ 1. Smartphone Camera



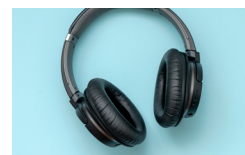
☐ 2. Portable Handheld Vacuum



☐ 3. Scratch Resistant Lenses



☐ 4. Freeze Dried Food



☐ 5. Wireless Headphones



☐ 6. Tang



☐ 7. Baby Formula



☐ 8. Velcro



☐ 9. Computer Mouse



☐ 10. Teflon

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Flip over to score your mission!

★ Score Your Mission

1. One-third of today's smartphone cameras use technology created for photography in space.
2. A company was contracted by NASA to create handheld devices to collect samples on the Moon, which led to commercially available portable, handheld vacuums.
3. Scratch resistant technology resulted from experiments the NASA Lewis Research Center conducted trying to make coatings for aerospace systems.
4. The process of freeze-drying food was created by NASA to provide their flight crews with lightweight, healthy meals.
5. Wireless headsets were created by NASA for their flight crews to allow for free movement while traveling in space.
6. This is a myth! Tang's invention was not space-related.
7. A nutritional enrichment ingredient used in 90% of baby formula was discovered when NASA used algae as a recycling agent in space.
8. This is a myth! Velcro's invention was not space-related.
9. The idea for the mouse originated when a NASA researcher wanted to make it easier to manipulate data on a computer.
10. This is a myth! Teflon's invention was not space-related.

Your Score:

Student

3 Correct Answers

Technician

5 Correct Answers

Engineer

8 Correct Answers

Lead Engineer

10 Correct Answers

References:

<https://www.jpl.nasa.gov/infographics/infographic.view.php?id=11358>
https://spinoff.nasa.gov/Spinoff2008/tech_benefits.html

https://www.nasa.gov/offices/ipp/home/myth_tang.html
https://www.nasa.gov/mission_pages/apollo/missions/apollo11.html

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