**Space Explorations Webquest** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Mission: This mission is designed for you to practice and challenge your space exploration knowledge. Type your responses below. Share it with me in google docs. Enjoy and good luck!**

**NASA**: <http://spaceflight.nasa.gov/history/>

1. When was NASA created?
2. What does NASA stand for?

**Search for Spinoffs:** <https://www.nasa.gov/kidsclub/flash/games/level4/Spinoffs_Hidden_Pictures.html>

1. IN YOUR OWN WORDS, what is a spinoff?
2. How many spinoffs are there?
3. Name the 16 spinoffs in the garage:

**Adventure to Mars:** <https://spaceplace.nasa.gov/mars-adventure/en/>

1. What are the 10 best items to bring to mars?

**Astro Matic 3000:** <https://www.nasa.gov/kidsclub/flash/clubhouse/Astro-Matic_3000.html>

1. How is your age calculated on Earth?
2. Why does your age change on other planets?
3. What effects your weight on Earth/other planets?

Explore to see what your age/weight would be on different planets. Don’t forget to read the fun facts about each planet!

[**Orbit Game**](http://spaceplace.nasa.gov/how-orbits-work/en/)**:** The international space station orbits Earth every 92 minutes! Other satellites also rely on Earth's gravitational pull to keep them in orbit. Practice putting cannonballs into orbit yourself!

1. How many bags of gunpowder are needed and why do you need that amount (no more and no less)?

**Apollo Missions:** <http://spaceflight.nasa.gov/history/>

1. Which President initiated the Apollo program?
2. What was the general purpose of the Apollo missions?

[**NASA TV**](http://www.nasa.gov/multimedia/nasatv/index.html)**:** Watch a few minutes of NASA television.

1. What was the show about? Name on new thing you learned.

[**Supercool Space Tools**](http://spaceplace.nasa.gov/story-space-tools/en/)**:** Space investigation tools have come a loooong way! Skim (briefly read) the Space Tools book.

1. What were the patterns that people saw in the sky long ago?
2. What tool splits light into color and why is this useful?
3. Other than light, what else do telescopes use to investigate space?
4. What is a lander?

**[Station Spacewalk Game](http://www.nasa.gov/multimedia/3d_resources/station_spacewalk_game.html) -** Living in space is harder than you think! Play the game and find out!

[**Hubble Telescope**](https://www.nasa.gov/mission_pages/hubble/videos/index.html)**:** One of the most famous telescopes is the Hubble Space Telescope. Hubble orbits Earth every 96 minutes and is even more effective than its Earthly counterparts because it is outside of Earth's atmosphere.

1. Watch: Hubble’s Galaxy Observing Superpower – Summarize the video

[**The International Space Station**](http://www.sciencekids.co.nz/sciencefacts/space/internationalspacestation.html)**:** Sometimes telescopes just are not enough. Did you know that there are astronauts living in space 24/7? Well there are! They are living on the International Space Station where they service NASA equipment and perform experiments.

1. What country sent the first module of the ISS to space?
2. Astronauts and Cosmonauts from how many different countries have visited the ISS?
3. On average, how fast does the ISS travel? How many orbits does it complete a day?
4. <https://www.youtube.com/watch?v=pSTp2KOxlOM> Watch the video – List three ways that day to day life is different on the ISS