Favorite Resources for Learning About the Earth, Moon, Sun, and Mars:

Print Resources

Bone, E. 2010. The solar system. London: Usborne Publishing.

Branley, F.M. 1998. The planets in our solar system. NY: Harper Collins.

Cole, J. 1992. The magic school bus lost in the solar system. NY: Scholastic Press.

Gibbons, G. 1995. The reasons for seasons. NY: Holiday House.

Gibbons, G. 1992. Star gazers. NY: Holiday House.

Glover, D. 2002. The big book of space. Princeton, NJ: Two Can Publishing.

McNulty, F. 2005. If you decide to go to the Moon. NY: Scholastic Press.

Rogers, K. 2000. Pathfinder: Mission to Mars. Barrington, IL: Rigby Education.

Seymour, S. 1992. Our solar system. NY: Harper Collins.

Internet Resources

This website has excellent descriptions of the planets and other objects in our solar system

http://stardate.org/astro-guide/ssguide

This is a link for a simulated landing of the Mars Pathfinder

http://marsrover.nasa.gov/gallery/video/movies/RoverAnimPart2.mov.

Here is a NASA page with links for information about Mars, Mars missions, and multimedia links

http://mars.jpl.nasa.gov/

Lander Rubric:

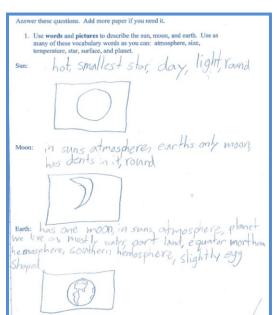
| Lander Name: | | | | | | - | | |
|---------------------------------------|---|---|---|---|---|---------|-----|--|
| | | | | | | | | |
| M: | | | | | | rojects | | |
| Working well in teams | 5 | 4 | 3 | 2 | 1 | x | 5 = | |
| Complete and thoughtful outline | 5 | 4 | 3 | 2 | 1 | x | 5 = | |
| Scientific questions and materials | 5 | 4 | 3 | 2 | 1 | X | 5 = | |
| Presentation skills | 5 | 4 | 3 | 2 | 1 | X | 4 = | |
| Creativity with materials and design | 5 | 4 | 3 | 2 | 1 | х | 2 = | |
| Durability (How well did it land?) | 5 | 4 | 3 | 2 | 1 | Х | 2 = | |
| Appearance of the model | 5 | 4 | 3 | 2 | 1 | x | 2 = | |
| Final Grade | | | | | | | | |

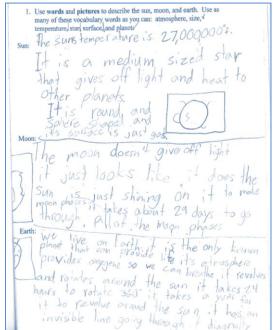
Pre and post-test questions and student work

Solar System Pre-Test/ Post-Test

Answer these questions. Add more paper if you need it.

- 1. Use **words** and **pictures** to describe the sun, moon, and earth. Use as many of these vocabulary words as you can: atmosphere, size, temperature, star, surface and planet.
- 2. Use **words** and **pictures** to describe how the sun and earth interact with each other. Use as many of these vocabulary words as you can: rotate, revolve, satellite, tilt, seasons, day, night, northern hemisphere, southern hemisphere, orbit, axis
- 3. Use **words** and **pictures** to describe how the earth and moon interact with each other. Use as many of these vocabulary words as you can: revolve, satellite, moon phase, orbit, waxing, waning, crescent, gibbous, quarter moon, full moon, new moon
- 4. Use **words** and **pictures** to describe how the earth, moon and sun all interact with each other. Use the words solar eclipse and lunar eclipse.
- 5. Describe Mars. How is it similar to earth? How is it different? Vocabulary ideas: surface, atmosphere, size, temperature
- 6. What are some SYSTEMS that need to be designed and tested by scientists in order to launch, steer, and land a spaceship on Mars?





Student pre- and post-tests

