

Introduction:

Our lesson was taught in Mrs. Caruso's 4th grade class at Magruder Elementary School, a class size of about 18 students. All of the students were boys with the exception of 4 girls. The class was an inclusion class with several students with special needs, perhaps 3-5 students. The class had learned about space in their curriculum, for example, science because they had postings of the phases of the moon created by each student in the classroom. The activity was an integration of technology and social studies into the science space curriculum.

Objectives:

1. Students will brainstorm concepts or ideas they are already familiar with about space exploration on the front board.
2. Students will watch the video "Voyages to the Moon" from an internet education site on this space exploration event.
3. Students will complete a question sheet about the events in the video with an accuracy of 90%.
4. Students will gain an understanding about the event of the first human walk on the moon from the "Voyage to the Moon" video by discussing the worksheet questions and contributing at least once in answering one of the 14 questions, with a focus on question 14.

Standard Number: 4.07

The student will investigate and understand the relationships among the Earth, moon, and sun. Key concepts include * the motions of the Earth, moon, and sun (revolution and rotation); * the causes for the Earth's seasons and phases of the moon; * the relative size, position, and makeup of the Earth, moon, and sun; * unique properties of the Earth as a planet and as part of the solar system; and * **historical contributions in understanding the Earth-moon-sun system.**

Materials:

- Large screen tv/ computer screen and computer with internet access
- Web site address: <http://whro.unitedstreaming.com>
- Video on "Voyages to the Moon" from accessing the web site
- Photocopy worksheet of space exploration questions
- Chalk or dry-erase board and chalk/markers for brainstorming about space exploration concepts
- Powerpoint to post worksheet questions on the large screen

Description:

- Students first brainstorm what they know about space exploration as the teacher writes answers on the board.

- Teachers will introduce video about space exploration, the history of the first walk on the moon as students will see. Preface the video showing by telling students they will watch one clip of the video at a time and then stop to answer questions on a worksheet (if they haven't already been answered while watching the video).
- Pass out the worksheet to each student. Tell students to put their name on the worksheet.
- Students will watch and listen to the video of "Voyages to the Moon" and answer the questions specified for that video section as they hear the answers in the video.
- Teacher will raise hand when an important piece of information is coming up in the video that will allow students to answer the next question.
- Students will volunteer at the close of the video to share their answers and the teacher will write each answer up on the board as they are answered correctly from #1-14. Students will then have a few minutes to answer question #14 (see Appendix A). Students will then be asked to volunteer to contribute what they know in reference to question #14 in the form of a discussion.
- Students will hand in their completed worksheets to the teacher for grading.

Evaluation Procedure:

A formative evaluation of the lesson was obtained by requiring each student to participate in one of the two class discussions, either the brainstorm or the review of correct question answers. Notice was taken also to ensure all students were paying attention to the video. Students were called on in either discussion at least once to ensure full participation if they did not volunteer. A summative evaluation of the lesson was obtained by requiring students to complete the worksheet of questions about the video and hand it in. Students were required to have 90% of questions complete and correct before they were allowed to hand in the worksheet. Proper adaptations were made for students with special needs as directed by Mrs. Caruso, the classroom teacher. A copy of the questions worksheet is included in Appendix A (see attached).

Professional Astronaut	Still in Training	Floating In Outer Space
11-13 questions correct	9-10 of 13 correct	up to 8 of 13 correct
Check plus	Check	Check minus

Reflections:

This lesson went very well in that students were very excited and receptive to having us in class to work with them. There were several inclusive students that we were not aware were in the class- we did not know there were more than one or two. But overall, the students did well in participating and contributing to class discussions. Is a great lesson to tie together outer space across content areas such as science and writing activities.