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Theme B: Day 8 Plan

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THEME B

Becoming a Spacewalker: My Journey to the Stars by Astronaut Jerry L. Ross

DAY EIGHT STEM EXTENSION TO ACCOMPANY DAY EIGHT SHARED READING OF *SPACE TRAVELER*

To Ponder: We can only imagine what space travel is really like unless we train specifically for this opportunity. Keeping in mind what you know and are learning about space, I wonder what space travel could look like from your artistic point of view.

To Set the Stage: View the video of STS 110, the Space Shuttle *Atlantis*, Jerry Ross's seventh and final launch in April 2002. As you watch the footage, notice how far the construction of the International Space Station has come compared to the video we watched yesterday of STS 61B.

<http://www.nss.org/resources/library/shuttlevideos/shuttle109.htm>

SCIENCE/ENGINEERING/TECHNOLOGY/MATHEMATICS (STEM) ACTIVITIES:

Science Investigation: Space travel from your point of view

Science/Language Arts Objective: To provide an opportunity to stretch child's own understanding of space travel

Vocabulary: ignition, thunderous, trajectory, parallel, acceleration, G-force, construction, mission, robotic, hatch, crew members, hostile, liftoff, atmosphere

Goal: To illustrate an understanding of Jerry Ross's story through an artistic medium of student's choice

Purpose of STEM/Art Activity: To provide another means for students to illustrate and visually represent their developing understanding of space travel

Materials: paper (8 ½" × 14"), pencil, markers, clay, paint, paint brush, computer, smartphone, music player, notebook, etc.

Before Activity:

- **Introduction:** Discuss the STS 61B and STS 110 videos. Over time, we can see just how far science, technology, engineering, and mathematics (STEM) concepts have enabled us to build a space station.
- **Activate prior knowledge:** What have you learned about Jerry Ross, gravity, and space travel?
- **Draw on personal experience:** What do you see in your mind when you think about this book? How could you illustrate what you see in your mind? (Show children an example and talk about your own thinking. This helps them generate ideas and make connections to their own understandings.)

During Activity: The students may use the artistic medium of their own choosing. For example, students may sketch to expand their thinking to express what they have learned from the book (paint, design clay representation, utilize technology, color, photograph, etc.).

After Activity:

- *My artistic impression or illustration shows*
_____.
- *As I created my illustration, I learned or thought about*
_____.

Resources:

Space Shuttle STS-110 Atlantis Space Station Assembly ISS-8A S0 Truss 2002 NASA
<https://www.youtube.com/watch?v=Uq8Nnt5VzgE>