

Post Mission Personal Debriefing



Teachers Information:

The main goal of the Challenger Learning Center program is to change the way that students perceive math and science, and their perception of their ability to perform well in these fields.

This is of course a very difficult goal to measure. One method is to have students participate in a self-reflection and answer questions that center around their perception of math and science. The following activity allows this self-reflection to occur.

Next Main Point:

- Objective: To encourage students to speak or write in complete sentences answers to questions about how the Challenger Learning Center affected them.
- Materials: Question sheet for each individual; can also work in teams of two
- Activity Duration: 30 minutes for each of the three sections

Procedure:

1. This activity is divided into three sections: Self Awareness Questions, Reflection Questions and the Student Evaluation. Each section should be completed on a different day.
2. Pass out the questions or evaluations to the students. If you have pictures taken of the mission, the DATA Logs used during the missions, or the station descriptions with pictures, it can be very helpful for the students in remembering more details regarding their visit to the center.
3. Have the students answer some or all of the questions and the evaluation and present some of their answers before the class.

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Questions for Self-Awareness Debriefing

1. What was your assignment on the space flight simulation and how was it important to the success of the mission?
2. If you had a chance to fly another mission, on which team would you want to serve and how would you prepare for your flight?
3. How was teamwork, reading, following directions, and preflight training in the classroom important on the mission?
4. After the visit to the Challenger Learning Center, do you think you are more interested in science, technology, engineering, and math? Will you follow more closely the actual flights of the NASA Space Shuttles?
5. When something did not go as planned, how did you handle the situation?
6. What character traits did you discover about yourself (patience, cooperative, impulsive, etc.)?
7. Did you find you were using skills you didn't know you had?
8. How did you feel when you contributed to the success of the mission?
9. Did you feel any self-confidence and motivation as a result of the mission?
10. How did you feel going into the mission, after the team pre-brief?

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Mission Reflection

1. What did you do on your team?
2. Compare your experiences in Mission Control and the Space Station.
3. Describe problems your team encountered in Mission Control.
4. Describe problems your team encountered in the Space Station.
5. Describe how each problem was handled.
6. How could you have make your job easier?
7. What qualifications should be required of an applicant in your position?
8. If you were to develop a training program for your team, what would you include?
9. Explain how your job was a necessary part of the mission.
10. If you hadn't done your job, how would it have affected others?
11. In your opinion, were you prepared for your role? Explain.
12. What skills were important to be successful in your position?
13. How did you feel after the mission?
14. What advice do you have for someone assigned to your position?
15. What was the most significant thing you learned from this experience?

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Student Evaluation Form

Name: _____ Age: _____ Grade: _____

1. I felt well prepared to participate in the mission	Yes	No
2. I understood the task cards	Yes	No
3. The simulator rooms and equipment were excellent	Yes	No
4. My Flight Director knew a lot	Yes	No
5. My Flight Director helped me understand what to do	Yes	No
6. My Flight Director answered my questions	Yes	No
7. My Flight Director challenged me to do my best	Yes	No
8. I played an important role	Yes	No
9. I enjoyed my job	Yes	No
10. I followed all directions carefully	Yes	No
11. I worked hard	Yes	No
12. I overcame difficulties	Yes	No
13. My team worked together to achieve mission goals	Yes	No
14. I learned how to communicate better	Yes	No
15. I learned a new way to work with others	Yes	No
16. I cooperated well as a team member	Yes	No
17. Teamwork by everyone made the mission successful	Yes	No
18. I was able to solve problems and make good decisions	Yes	No
19. I feel more confident using technology like instruments, computers, and robots	Yes	No
20. I learned about math, science, and technology	Yes	No
21. I used a computer successfully	Yes	No
22. I learned a great deal at the Challenger Learning Center	Yes	No
23. I would like to do more activities related to this mission at school	Yes	No
24. I am more interested in space	Yes	No
25. My experience makes me think I could have a career that uses science, technology, engineering, or math	Yes	No
26. My experience will help me succeed in the future	Yes	No
27. On my own, I plan to do activities related to this mission	Yes	No
28. This was a fun way to learn	Yes	No
29. I would like to participate in this mission again	Yes	No
30. I think that the school should allow students in the grade below me to participate in this activity next year	Yes	No

31. The best part of the mission was:

32. The worst part of the mission was:

