



Station Spacewalk Game

Student Worksheet

1. What is the purpose of the International Space Station?

2. What are some of the hazards of spacewalking?

3. What is the role of an airlock?

4. What do the solar arrays do?

5. What is the benefit of installing the S6 truss?

6. Now that you've played the game, what do you think of the challenges that an astronaut faces?

7. What kinds of information might need to be exchanged between satellites and the ground?

8. The International Space Station is a low-earth-orbiter (LEO), making it an ideal client of the Space Network's Tracking and Data Relay Satellite (TDRS) system. What are the benefits of sending communication through TDRS satellites instead of directly to the ground?

9. The data from the SPHERES experiment will have to be sent back to Earth for analysis. Using what you have learned, describe the path that the signal will take to get back to Earth.