

This classroom activity introduces students to the context of the performance task. This ensures that students are not disadvantaged in completing the skills the task intends to assess. Contextual elements include understanding the situation of the task, potentially unfamiliar concepts associated with the situation or setting, and key terms or vocabulary students will need to understand in order to engage with the performance task. This classroom activity is also intended to interest the students in the task they are to complete. This activity should be easy to implement and contains clear instructions.

Please read through the entire classroom activity before beginning the activity with students. This will ensure that all classroom preparation is completed before the activity begins.

Learning Goals:

- Students will identify preparations necessary and materials needed for a trip, paying particular attention to traveling in space

[**Purpose:** The facilitator's goal is to introduce students to some components involved with preparations for space travel.]

Facilitator says: "Today we are going to talk about planning for a trip. What does it mean to take a trip?"

[Allow students to share.]

Facilitator says: "So we can say that a trip could be anytime you spend the night away from your house. How many of you have ever taken a trip? How many of you have ever spent the night away from your house?"

[Allow students to raise their hands.]

Facilitator says: "I noticed a lot of you raised your hands. What kinds of trips away from your house have you taken?"

[Call on students to share.]

Facilitator says: "As you have shared, there are many different types of trips. Because there are many different types of trips, there are many different types of transportation for trips, too. What types of transportation might you take on a trip?"

[Call on students to share.]

Facilitator says: "That is right. You all have shared many different types of transportation used to travel. Today, we are going to talk about what a trip to space in a spaceship might be like. What are some ways that a trip in a spaceship might be different than a trip in a car or on a plane?"

[Call on students to share.]

Facilitator says: "Yes, as you have shared, there are many ways traveling in a spaceship is different. Now I want you to think about how a trip on a spaceship might be the same as a trip in a car or on a plane. What similarities can you think of?"

[Call on students to share.]

Facilitator says: "Yes, there are some ways the trips would be the same. No matter what kind of trip you take, you have to plan for it, right? Think about the planning you would need to do for a trip on a spaceship. How might your planning be different than a trip you would take on Earth?"

[Call on students to share.]

Facilitator says: "How might the planning be the same?"

[Call on students to share.]

Facilitator says: "No matter where your trip happens, you will still need to know how much food you will need, what kinds of clothes to bring, and where on the map you need to end up at the end of your trip."

Facilitator says: "What about a trip in a car and a trip in a spaceship? Can you think of any similarities between those types of transportation?"

[Call on students to share. Try to focus responses on making sure there is enough fuel or gasoline.]

Facilitator says: "That is right. Both cars and spaceships run on fuel. In order to make sure you get where you want to go, you need to make sure you have enough fuel. You need to understand how big your fuel tank is and how much farther you can go with the amount of fuel you have left."

Facilitator says: "As we have discussed, there are some basic plans you need to make for a trip, no matter where you go. You need to make sure you have enough food and water, you need to make sure you have clothing, and you need to make sure you can figure out where on a map you are supposed to travel. If you use a method of transportation that uses fuel, it is also important that you are aware of how much fuel you have."

Facilitator says: "During this performance task, you will encounter some of these aspects we discussed today about planning for a trip into space. You now understand some of these ideas and are ready to complete the performance task."