



STEM Career Adventures: Urban Planner

Rooftop Gardens

Adventure Description

A rooftop garden is a garden on the top of a building that enhances its appearance while providing ecological benefits such as food and temperature control. A local school has asked you, an urban planner, to design a rooftop garden that will provide fresh fruits and vegetables for the school lunch program while creating a relaxing space to study and socialize.



Background Information

- An urban planner is someone who develops plans and programs for the use of land. It's their job to create communities, accommodate growth, or revitalize physical facilities in towns, cities, counties, and metropolitan areas.
- Rooftop gardens have become increasingly popular for many urban cities. They are a great way to add plants to areas with limited space. Rooftop gardens can have many benefits, including a way to grow fresh fruits or vegetables.



Activity (45-60 minutes)

Step 1: Setting Up (5 minutes)

- The school has asked for you to design a rooftop garden. Provide explorers with the **Discovery Pictures: Rooftop Garden** Examples and discuss why a rooftop garden would be beneficial for a school.
- Provide the explorers with **Discovery Handout: Cost of Supplies and Spending**, **Discovery Page: My Spending Log**, and **Discovery Handout: Client Criteria**.
 - Explain to explorers that they will work in pairs to design a rooftop garden based on what the school is looking for. They should keep in mind that their total budget is \$2500, so it is important to keep track of spending.
 - Explorers should read through documents before they begin designing.

Step 2: Create Rooftop Design (30 minutes)

- Explain to explorers that they will use **Discovery Handout: Cost of Supplies and Spending**, **Discovery Handout: Client Criteria**, **Discovery Page: My Spending Log**, and **Discovery Handout: Grid Paper** to create their garden designs and make sure they stay in budget.

Contact Allison, Director of Customer Service, with any questions or feedback at 314-272-2560 or allison@rozzylearningcompany.com