



STEM Career Adventures: Architect

Pools and Parks

Introduction to Career:

You will think like an architect and design a new shade structure for people to use while they are at the pool or park!

Adventure Description

A person who designs buildings or structures. They come up with ideas, draw pictures, and create examples (called prototypes) of what their designs look like. Architects design homes, places for people to work, schools, parks, and even zoos!

Activity 1: Shade Structures (35-40 minutes)

Shade Structures for Pools and Parks

- Explain to explorers that many communities have places for kids to play outside. A community is a neighborhood or area where people live or work. Architects work with communities to design places for people to live, work, and play.
- Explain to explorers that architects are working to solve a problem: kids are getting sunburnt when they are playing outside!
 - Ask explorers what architects can do to solve this problem.
 - Explain that architects have come up with a solution: build a giant shade to go over playgrounds and pools!
 - Show **Discovery Picture: Types of Shade**
- Explain to explorers that they will be designing a giant shade to go over a pool so it so kids won't get sunburnt when they are playing outside!

Part 2: Designing a Shade Structure (5-10 minutes)

- Divide explorers into small groups.
- Provide each group with **Discovery Page: Shade Structure Designs**. Have explorers think like architects and draw out what their shade structure will look like. Explain to explorers that architects always draw out their ideas first (their drawings are called blueprints).

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

Send photos of your explorers and their projects to allison@rozzylearningcompany.com to be featured on Rozzy's website, social media pages, and blog!



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Part 3: Building a Shade Structure (15-25 minutes)

- Explain to explorers that it is time to build! Have explorers work in their small groups to build their shade structure.
- Provide each group with a bin of water. This will be their pool.
- Provide each group with art and building supplies. Have groups design a shade to go over their pool to protect kids from the sun
- When groups are finished building, have them share their designs with the rest of the class.

Extra Time?

- Explain to explorers that architects always share their ideas with others. Have groups create a large sign that shows others how their shade will protect kids from getting burnt. This sign can be made on large pieces of paper or using technology! Explorers can also create a song or a skit to teach others about their shade structure.
- Have students design a shade structure for another place (e.g., school playground, dog park).

Materials List

Provided online:

- **Discovery Picture: Types of Shade**
- **Discovery Page: Shade Structure Designs**

Not provided:

- Art and building supplies (e.g., tinfoil, cardboard, bubble wrap, construction bag, jars, popsicle sticks, pipe cleaners)

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