



Careers from A to Z:
Elliot the
Eco-Friendly
Architect



WHO IS ELLIOT?



Elliot is an **eco-friendly architect**. Architects plan and design buildings and structures, like houses, skyscrapers, or bridges. Architects think about what buildings should look like and how to make buildings safe. How would you feel if you walked into a building where the walls were swaying back and forth?

Eco-friendly architects are a special type of architect. They think about the environment when they plan designs. Elliot makes sure his buildings don't use too much energy. **Solar panels** are one way to make energy without hurting the environment. Solar panels go on roofs and use sunlight to power the buildings. Elliot also plans what environmentally friendly materials to use to build. Eco-friendly architects search for materials that will last a long time, like wood or bamboo!

WHAT IS BAMBOO?

Bamboo is a material that architects might use in their designs. Bamboo is strong and flexible. It can bend easily without breaking! It is also **sustainable**, which means you can keep using it without it running out. There is a lot of bamboo growing around the world in Asia, Australia, and South America. Bamboo is also water-proof and naturally **anti-bacterial**. This means that bamboo can kill bacteria and stay clean.



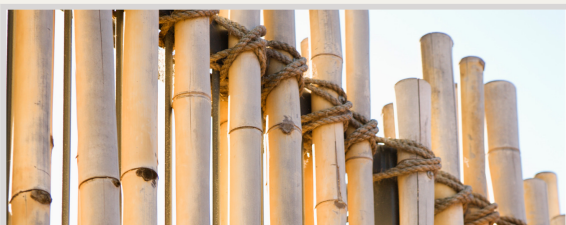
ELLIOTS'S PHOTO ALBUM



"This is a forest of bamboo I came across in Asia. Bamboo can reach 130 feet in height! Bamboo also grows super fast. It can grow 3 feet in 24 hours. Because bamboo grows so quickly, we can build a lot of houses for people."



"On my trip, I visited this amazing bamboo house! Since bamboo is smooth and an attractive color, it doesn't require painting. Bamboo structures are also earthquake-resistant. They are extremely strong and don't easily bend. Bamboo is perfect if a big storm comes!"





IT'S YOUR TURN

Bridges can also be built using bamboo. Before eco-friendly architects start building, they draw blueprints. A blueprint is a sketch of what a building will look like. Below, draw a blueprint of a bridge that can be built using bamboo.

Your bridge must follow the below rules:

- Your bridge must be wide enough for two cars to pass one another.
- Your bridge needs to have a walking path on one side.
- Your bridge must have walls on the sides to keep the cars and people safe.
- Your bridge needs to cross over water.
- Your bridge needs to have at least one fun design of your choice!

