



Exploring Civil Engineering

Civil Engineering Facts

Did you know.....

A civil engineer designs and builds important structures such as buildings, bridges and roads.

Some civil engineers specialize in water resources, construction, and transportation.

Algebra, geometry, chemistry, and physics are important for civil engineers to learn.

<https://www.sciencekids.co.nz/sciencefacts/engineering/civilengineering.html>

Activity

Cardboard City

Materials: Cardboard boxes of varying sizes, markers or crayons, masking tape

What you will do: Tell your child that he/she gets to create their own miniature city. First, explain to them that engineers must plan their city before they build it. Help your child think about the following questions: what is a city?; what does a city need?; what do people living in a city need? Then allow your child to create the buildings out of boxes. Possible buildings could be a grocery store, post office, library, school, park, house/apartment etc. Encourage them to draw windows, columns, doors, stairs, chimneys, etc on the buildings. Once the buildings are complete, use tape to create roads, sidewalks, and maybe even bike lanes and boardwalks! Help your child use cardboard scraps to make cars and bridges.

Discuss: Explain to your child that engineers are the reason why the city/town you live in is designed the way it is. When an engineer plans a city they have to consider what resources people need and how they will access them.

<https://lemonlimeadventures.com/cardboard-city/>

Sing

You're An Engineer

By: Dan Crow on YouTube
Learn more about all of the different kinds of engineers and what they do!

https://www.youtube.com/watch?v=dU_Ml1wf1z4