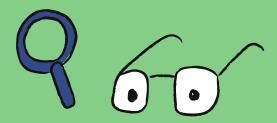


DESIGN SKILLS



ObserveLook and listen carefully to notice what matters.



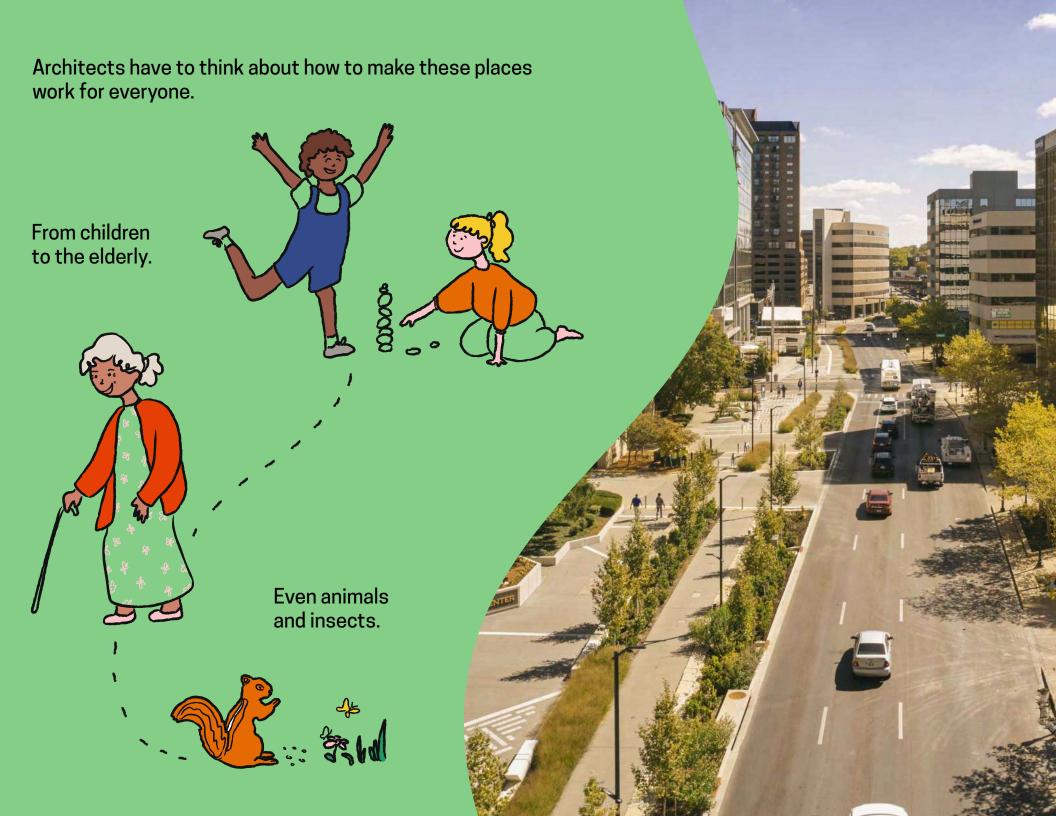
PrototypeBuild a simple version of your idea.

LEARNING OUTCOMES

- I can understand that streets have many different parts and people.
- I can identify what's good in my community and what could be better.
- I can discover how different materials can be used to show my idea.



WHAT DOES AN ARCHITECT DO? An architect is a person who designs... 3) Signs **(5)** Lighting 1 Roads 2 Sidwalks 4 Seating 6 Greenery 6 2 They also design other buildings and spaces like schools to parks.



When architects are designing a streetscape, they think about...



How can everyone get to places quickly and safely?

How can everyone use the street with ease?

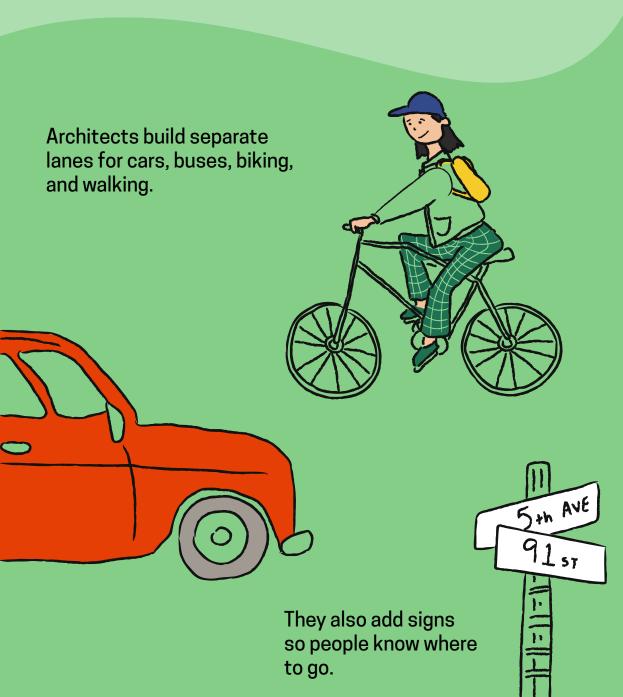


How can the street be good for the earth?





When everyone can get to where they need to go fast and safely, that's called being efficient.





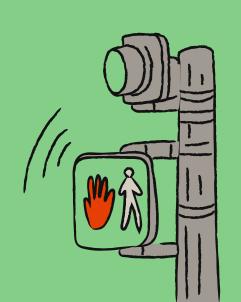
When everyone can use the street with ease and comfort, that's called being accessible.

Smooth sidewalks and ramps are good for wheelchairs, strollers, and delivery carts.





Architects design covers used for rain or sun. They design places to sit and rest, and even spots for kids to play.



Crosswalks with lights and sounds and special paths help people who can't see or hear.





DESIGN CHALLENGE

How might you design a streetscape for your community?



STEP 1. EXPLORE YOUR STREET

Look at your street and write or draw below.



I like and want to keep... I don't like and want to change...

EXAMPLE

I like and want to keep...

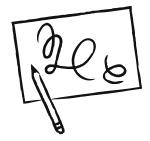
- Trees
- · Bike lane
- · Cross walk

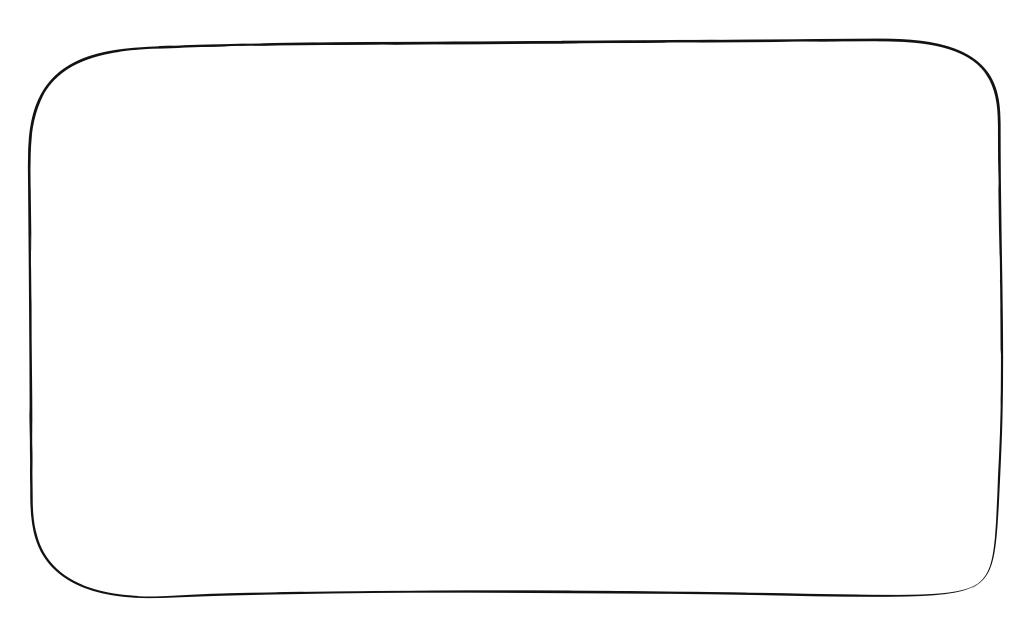
I don't like and want to change...

- No places to sit
- . No bike racks
- · No accessible entrances for elderly or delivery person

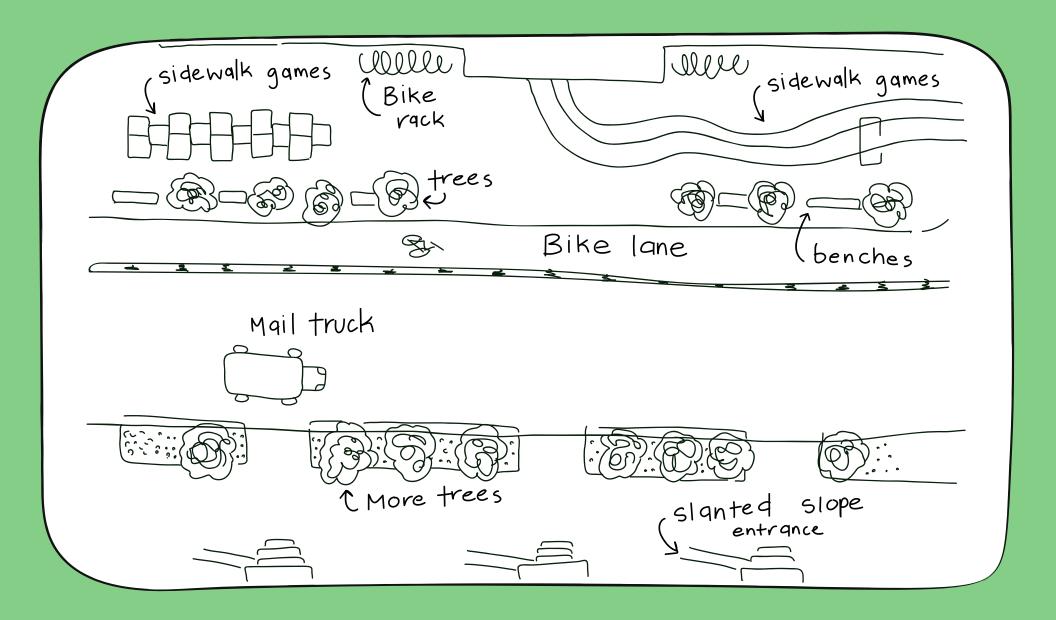
STEP 2. DRAW YOUR DESIGN

Draw a new design for your street. Don't forget to label!





EXAMPLE



STEP 3. COLLECT MATERIALS

Collect old and recycled materials you can use to build your street.

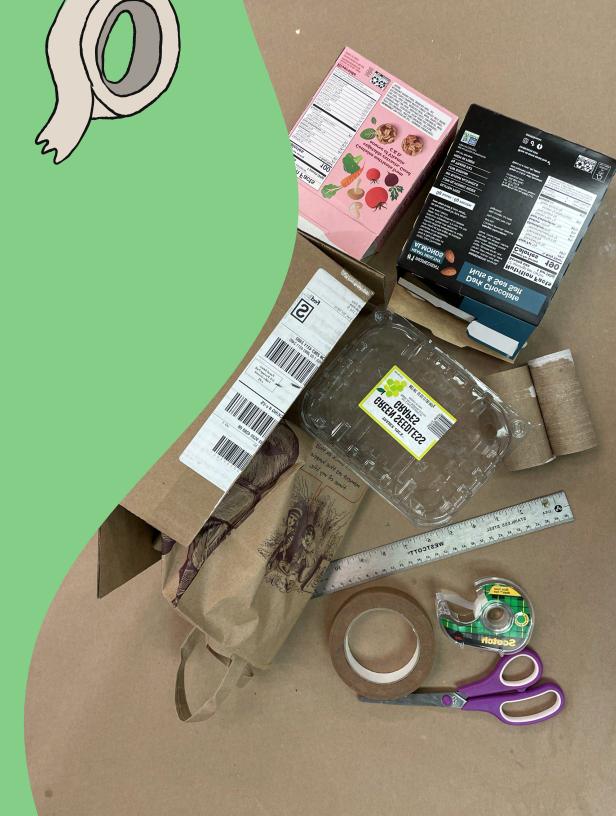
Materials:

- Cardboard boxes
- Toilet paper roles
- Paper bags
- Cardboard and plastic containers

Building tools:

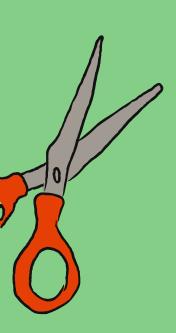
- Scissor
- Tape
- Glue
- Ruler
- Markers





STEP 4. CREATE YOUR BASE

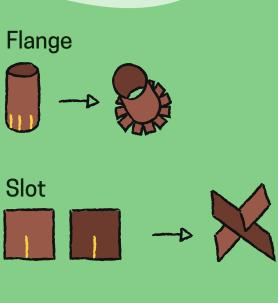
Cut the side of a box so it can be used as a strong base for you to build on top of, such as a cereal or shipping box.

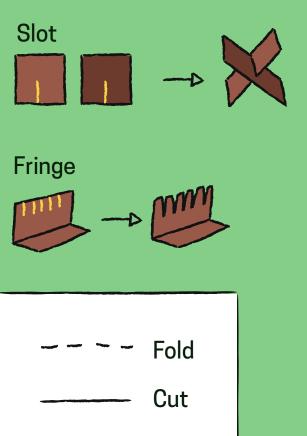


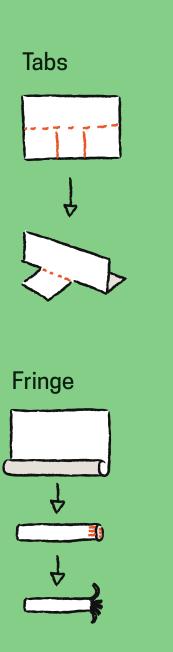


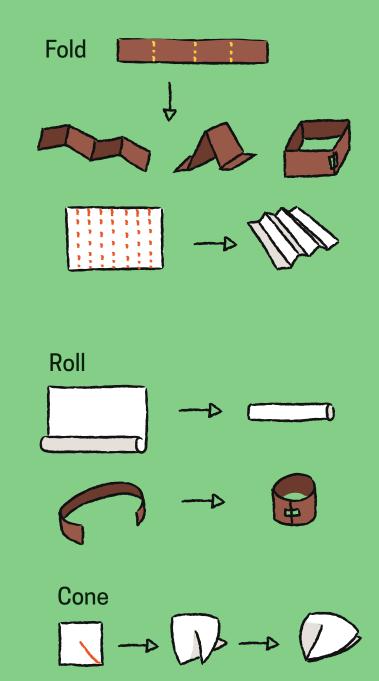
STEP 5. BUILD YOUR STREET

Check out different ways you can build using cardboard and paper.









STEP 6. SHARE YOUR DESIGN

Share your design with friends and family!

Benches to sit on.

A bike lane.



A bike rack to store bikes.

More trees for shade.

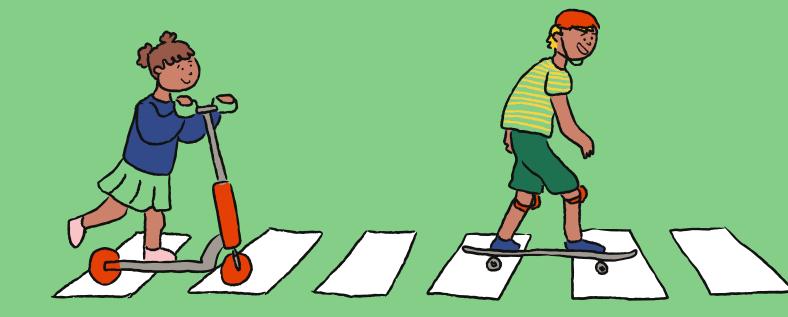
Sloped sidewalks and building entrances.

CHECK OUT MORE RESOURCES

For more ways to experience design in the classroom or at home, check out Cooper Hewitt's Learning Resources page for activities and content on design skills, collections, and exhibitions.

https://www.cooperhewitt.org/learning-resources/





CLASSROOM CONNECTION

Next Generation Science Engineering Design Second Grade- Engineering Design

K-2-ETS1-1: Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

K-2-ETS1-2: Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

C3- Social Studies

Civics

By End of Grade 2

D2.Civ.2.K-2. Explain how all people, not just official leaders, play important roles in a community.

D2.Civ.6.K-2. Describe how communities work to accomplish common tasks, establish responsibilities, and fulfill roles of authority.

D2.Civ.14.K-2. Describe how people have tried to improve their communities over time.

Geography

By End of Grade 2

D2.Geo.1.K-2. Construct maps, graphs, and other representations of familiar places.

D2.Geo.2.K-2. Use maps, graphs, photographs, and other representations to describe places and the relationships and interactions that shape them.

D2.Geo.5.K-2. Describe how human activities affect the cultural and environmental characteristics of places or regions.

TEACHER NOTES

This activity can be broken up into:

Individual

- 15-20 min: At home have students observe their street.
- 10-15 min: Bring recycled materials from home to school.
- 20-45 min: Build your street, this should be making a quick and rough model.

Group

- 15-20 min: In groups of 2-3 observe your school street, then draw a design.
- 5-10 min: Share with your partner, combine your designs, select at least 1 thing from each design to include in your model.
- 20-45 min: Build your street together, make a rough model. 20 min timer suggested to encourage quick prototyping, or dedicate a 45 minuate class to spend more time experimenting with different techniques.

IMAGE SOURCES

Cole, Ty, and SCAPE. Town Branch Commons, Lexington Kentucky . SCAPE Studio. SCAPE Landscape Architecture DPC , 2022. https://www.scapestudio.com/projects/town-branch-commons/.

rb arc, and Kate Joyce. Railyard Park, Rogers, Arkansas. Rb Arc. rb arc, 2021. https://www.r-barc.com/work/railyard-park.

TERREMOTO, and Stephen Schauer. Platform Park. Terremoto. Terremoto, 2019. https://terremoto.la/project/platform-park.