SAFE BY DESIGN

SAFE TRANSPORTATION



pogo

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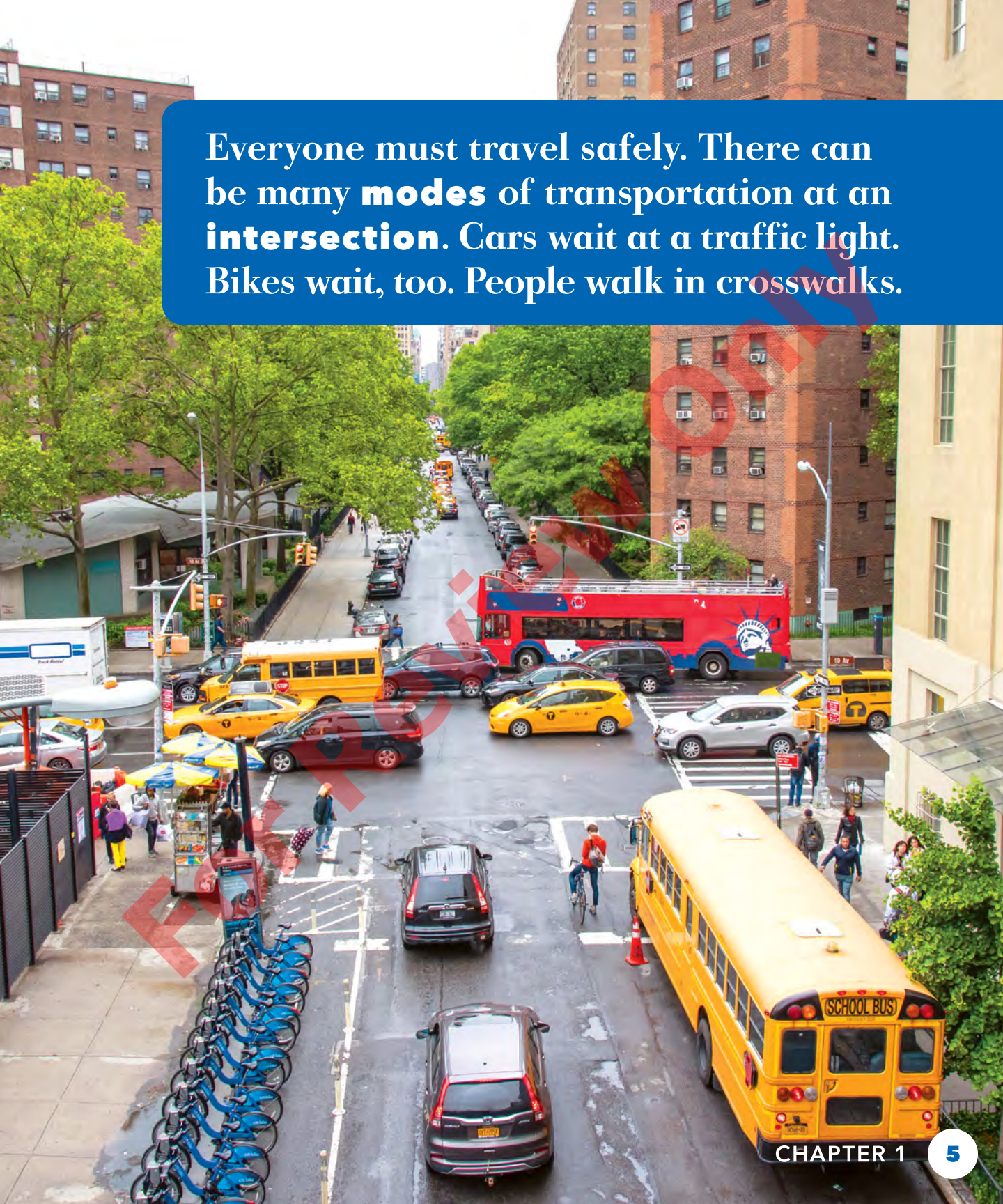
CHAPTER 1

SAFETY FIRST

Screech! What's that sound? It is an **automatic train stop**. It stops a train if there is a problem. It is just one of many ways to keep travelers safe!



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Everyone must travel safely. There can be many **modes** of transportation at an **intersection**. Cars wait at a traffic light. Bikes wait, too. People walk in crosswalks.

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Transportation engineers help keep us moving. How? They plan systems like highways, subways, and crosswalks. Designers help, too. They create technology, like backup cameras. These help us avoid accidents.

DID YOU KNOW?

The United States has more than four million miles (6.4 million kilometers) of roads. There are 200,000 miles (321,869 km) of railway. There are more than 5,000 public airports!



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Transportation engineers create **models** and perform tests. Why? They use them to test out systems and technologies. **Data** from the tests helps them solve problems.

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ACTIVITIES & TOOLS

TRY THIS!

MAKE YOUR OWN CITY

Design your own town! What do you need to include to make it safe?

What You Need:

- a roll of paper or extra-large poster board
- crayons or colored pencils
- cardboard boxes or cereal boxes
- tape
- scissors
- toy cars, airplanes, and trains



1. **First, sketch out your town. What shape will it be? What types of buildings and houses will it have?**
2. **Use the boxes and tape to make some buildings for your city.**
3. **Think about the cars, trains, and airplanes you have. Will you need to build an airport or train station? How will people get to those stations?**
4. **Consider what your city will look like during rush hour when many people are traveling. You may need to add more streets, stoplights, buses, or roundabouts.**
5. **When you have finished your city, try other designs. Think about special problems you can solve, like building a city in the mountains or creating a town that doesn't use any electricity.**

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