

AMAZING ARCHITECTURE

AMAZING BRIDGES

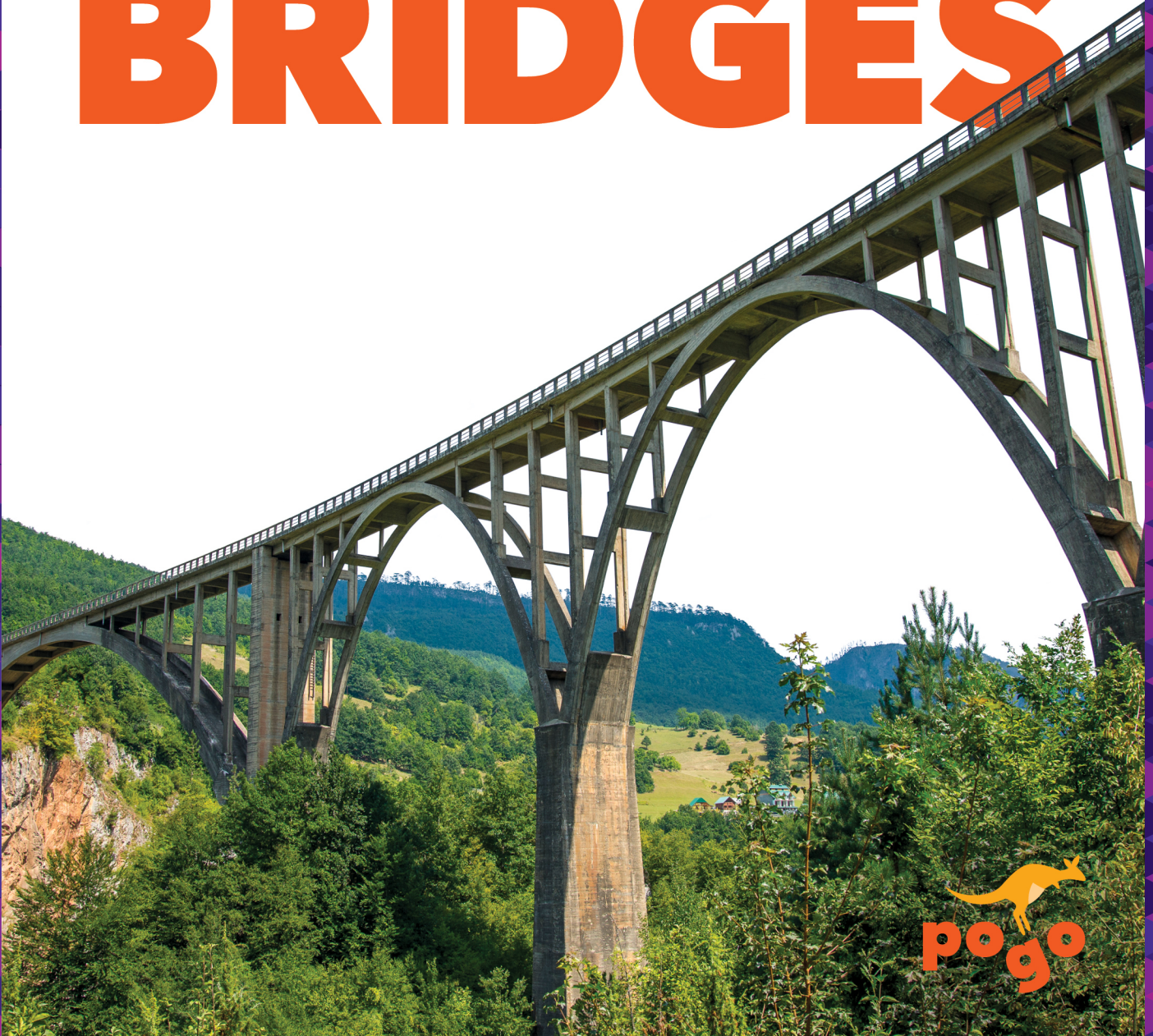


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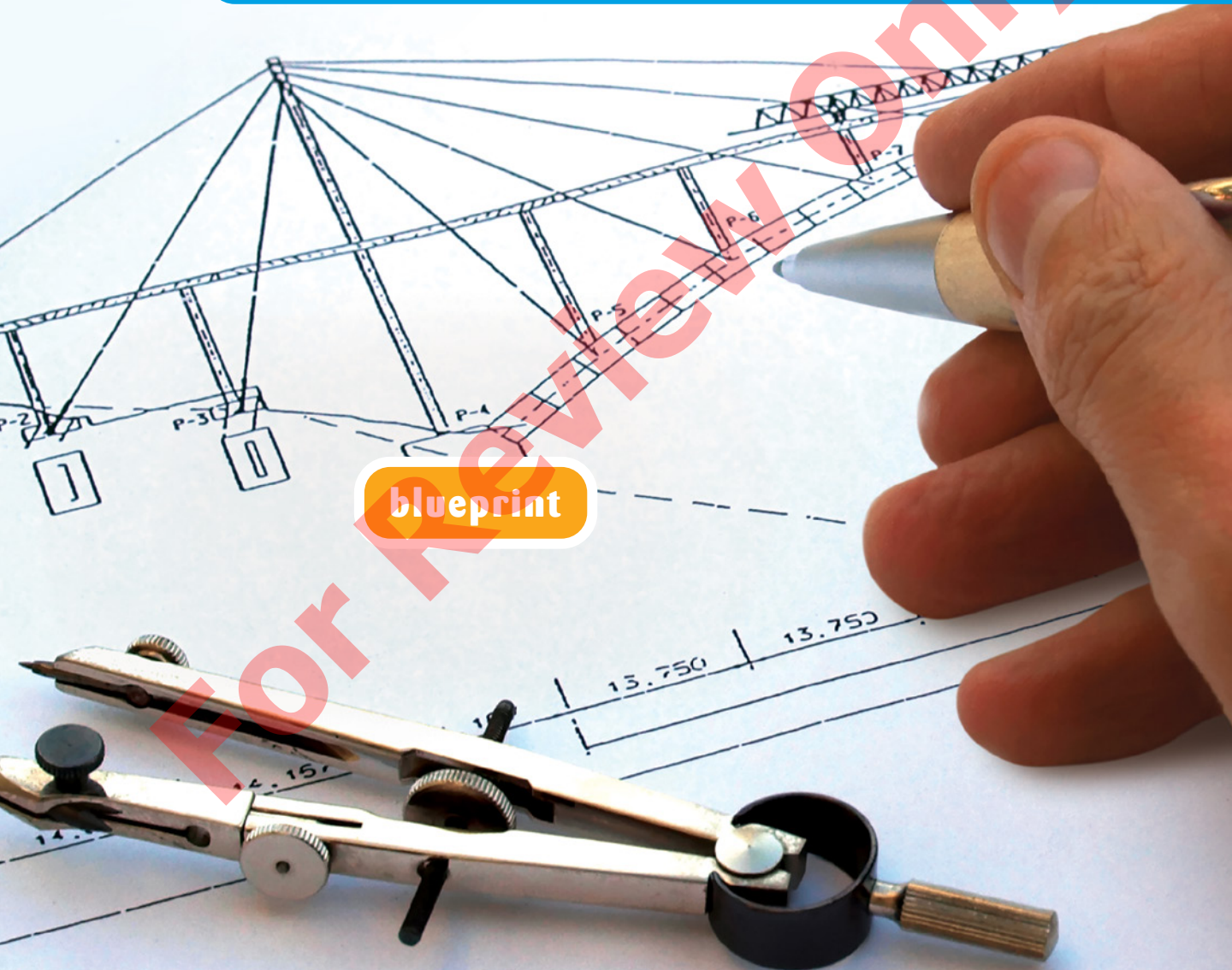
CHAPTER 1

CROSSING OVER

We use bridges to get around. We walk, drive, or ride across them. A bridge is any **structure** that makes a path over an **obstacle**. Bridges can cross over roads, water, and valleys.



Civil engineers design bridges. They make **blueprints**. **Architects** help plan how bridges will look. Then, construction workers build them.



The Danyang-Kunshan Grand Bridge in China is the longest in the world. It stretches more than 100 miles (161 kilometers)! Trains travel on it.

How do bridges like this stay up? Let's find out!

DID YOU KNOW?

The Danyang-Kunshan Grand Bridge took four years to build. It cost 8.5 billion dollars! About 10,000 people helped build it.





**Danyang-Kunshan
Grand Bridge**

CHAPTER 2

KEEP IT UP

A bridge must be strong. It needs to stand up to harsh weather. It must hold its weight and the **load** on it. Concrete and steel make strong bridges. These materials do not break under heavy loads.



The part of a bridge we walk or drive on is the deck. **Supports** hold the deck up. **Cables** are one kind of support.

