Teacher Tips To Get to the Other Side

Lesson 4
Designing a Bridge

• Use 15” paper strip during Introduction to show the span, distribute to students during CREATE

• Pre-teach construction skills (taping, combining)

ASK  Discuss the page as a chart with the entire class.

• For Q2 (materials), hold up and clarify what materials, what size, and amounts available for each pair. Point out chart with material info from L3.

• For Q3 (testing), demonstrate how to test with the barge, the car, and the weights.

• For Q4: do think-pair-share for students to reinforce understandings of bridge information.

IMAGINE

• Add the rectangular abutments to the empty spaces for drawing, either by drawing them in and then making copies for students, or showing students how to draw them in themselves. This can also be done for the PLAN sheet.

CREATE

• Provide a 15” strip for each pair to make sure their bridge is long enough to cover this span.

• Consider providing already rolled columns (as used in L2) and accordion-folded cards (as used in L3) as a material choice for younger students.