

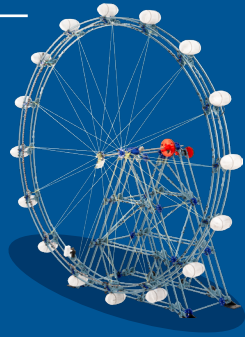
STRUCTURES SYSTEM

Imagine • Design • Analyze

Experience real-world design!

- ▶ Build bridges, cranes, hydraulic lifts, and more.
- ▶ Students can explore different designs because structures can be reconfigured quickly.
- ▶ Measure tension and compression.

This model of the **London Eye** was built using the PASCO Structures System and custom 3D printed parts. Download the **FREE** 3D print plans and a complete parts list at [pasco.com/structures](https://www.pasco.com/structures)

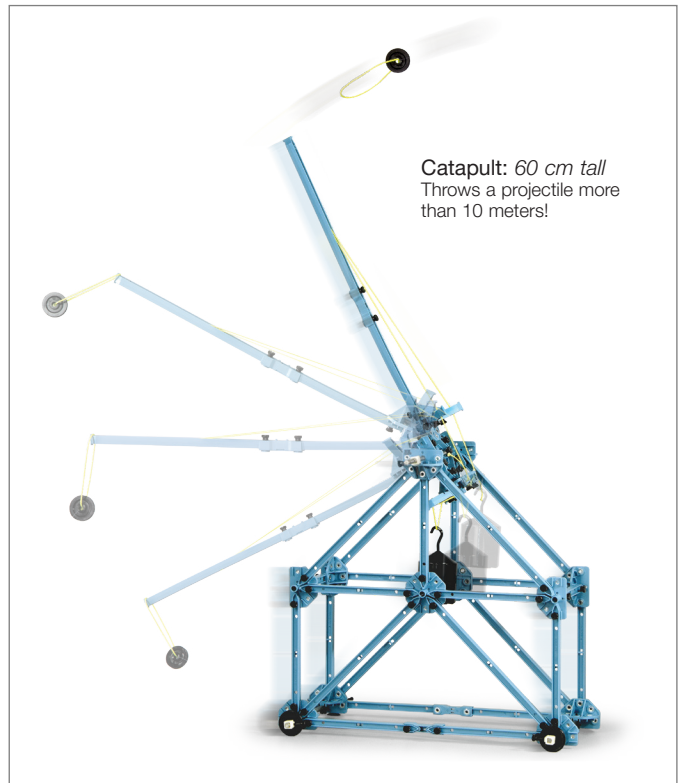
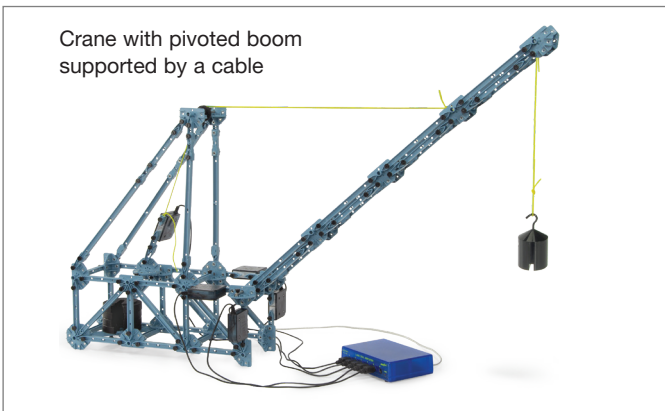
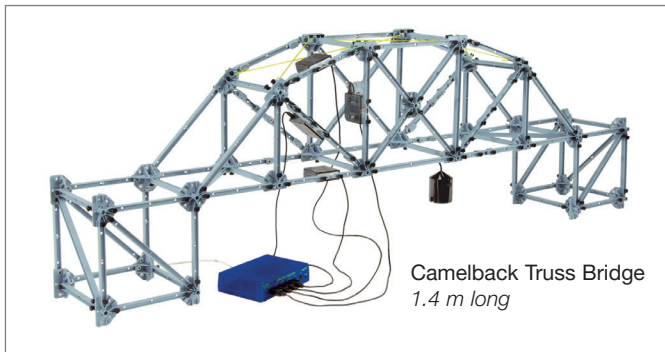


PASCO

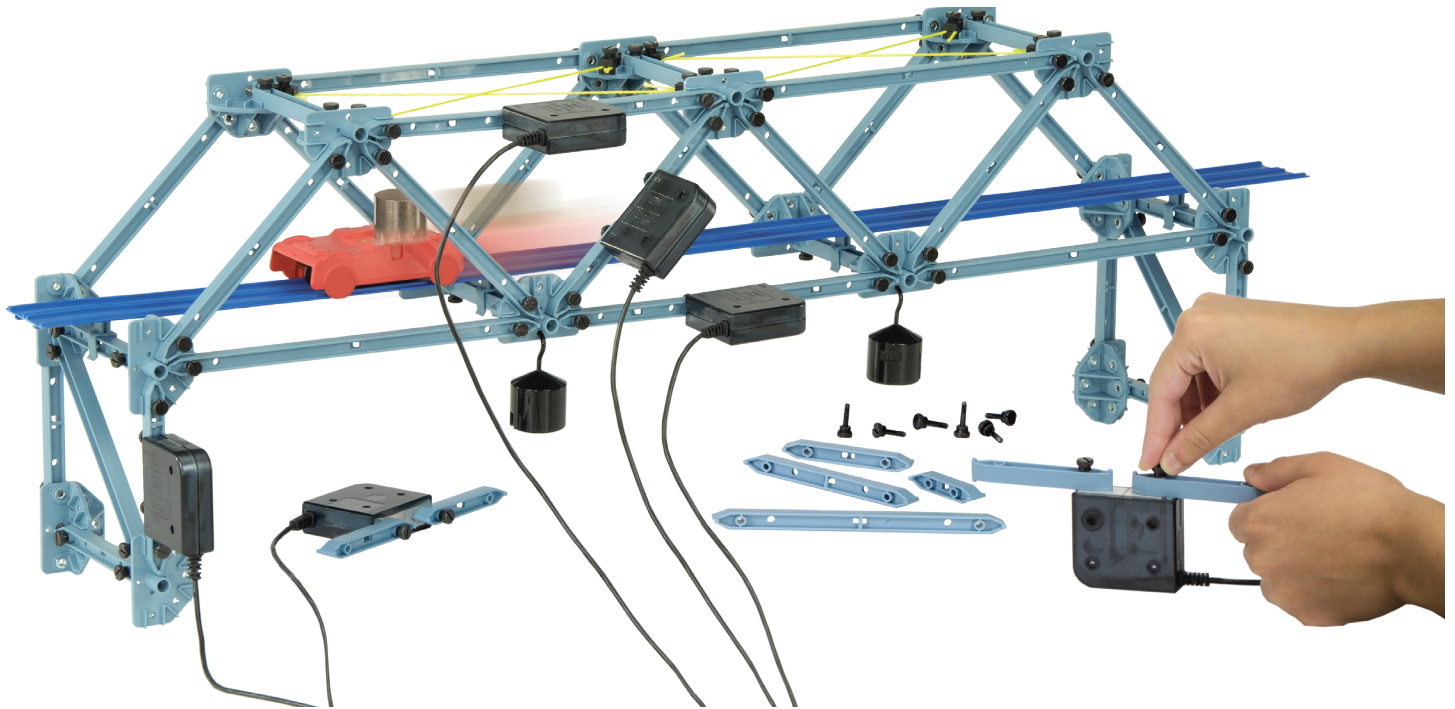
Structures System

Build bridges, cranes, catapults, and much more.

Experience real-world design building a large variety of structures. This reconfigurable system allows students to measure static and dynamic forces using load cells, and they still have time to redesign and test again.

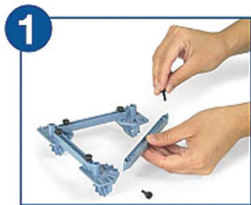


Only PASCO helps students engineer structures and measure forces on them in real time.



Imagine... Design... Analyze...

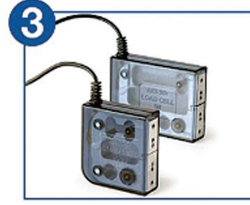
Trusses, bridges, roller coasters, cranes, booms, human models, and much more can all be quickly built and analyzed. Far more advanced than toothpick models and much more hands-on than computer simulations, PASCO Structures are ideal for real-world design. And the ease of use of PASCO Structures allows students to quickly build, test, and then redesign their structures quickly and efficiently, which supports the engineering process.



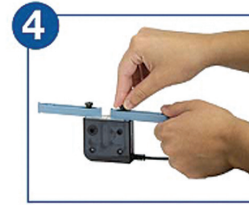
1 Designing and building structures is simple and easy.



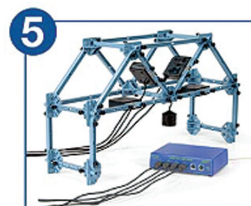
2 I-beams fit into connectors and are secured with thumb screws.



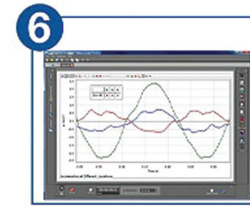
3 Load cells measure compression and tension...



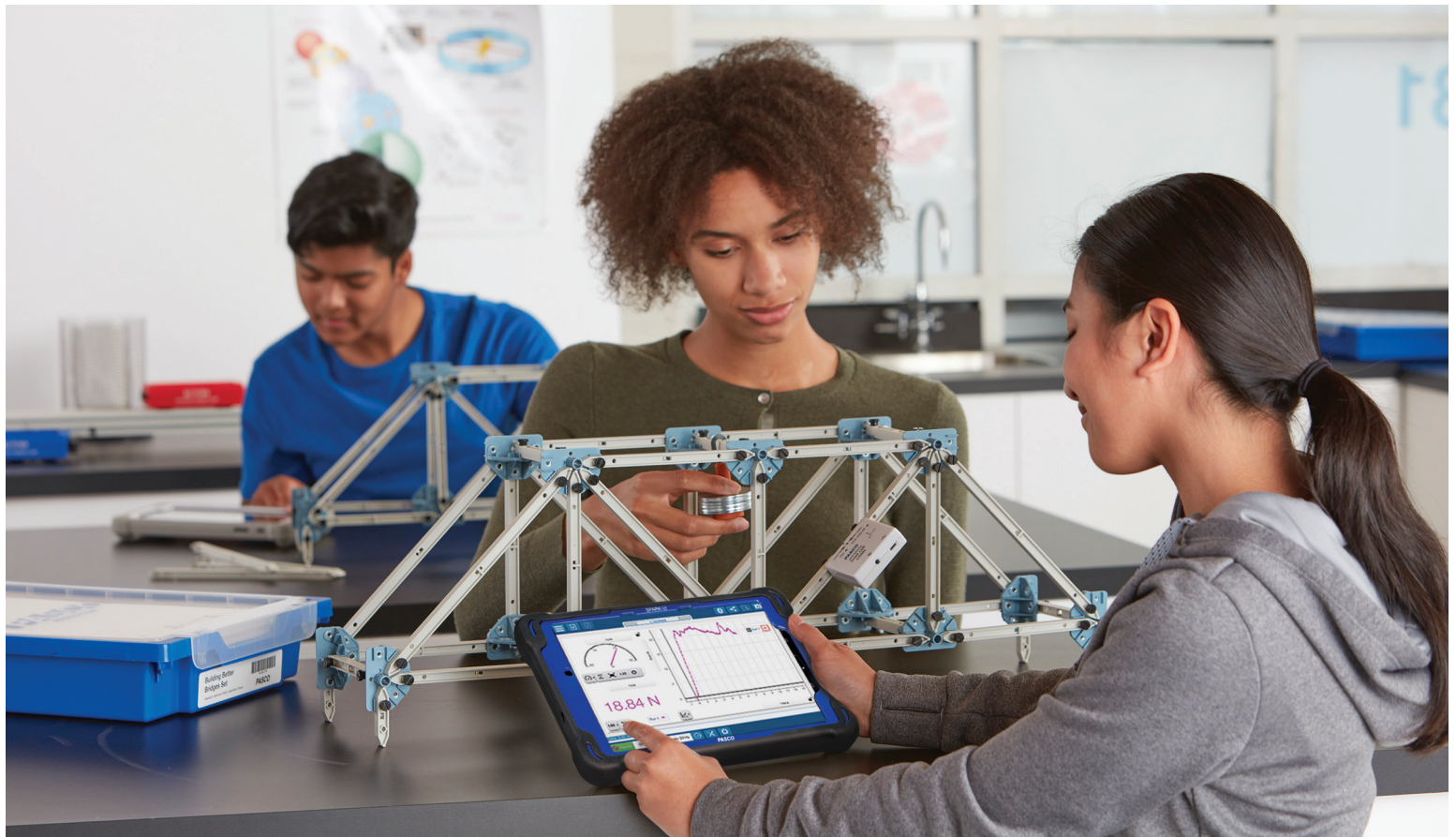
4 ...and may be placed anywhere in your structure.



5 Load cells are then plugged into a Load Cell Amplifier that connects to a PASCO interface, which is connected by USB or Bluetooth to a device running PASCO software.



6 PASCO software then allows students to view a graph of the forces in real time and analyze the resulting data with a suite of powerful tools. PASCO Capstone runs on Mac or Windows computers. SPARKvue software runs on computers, iPads, Android tablets, and Chromebooks.



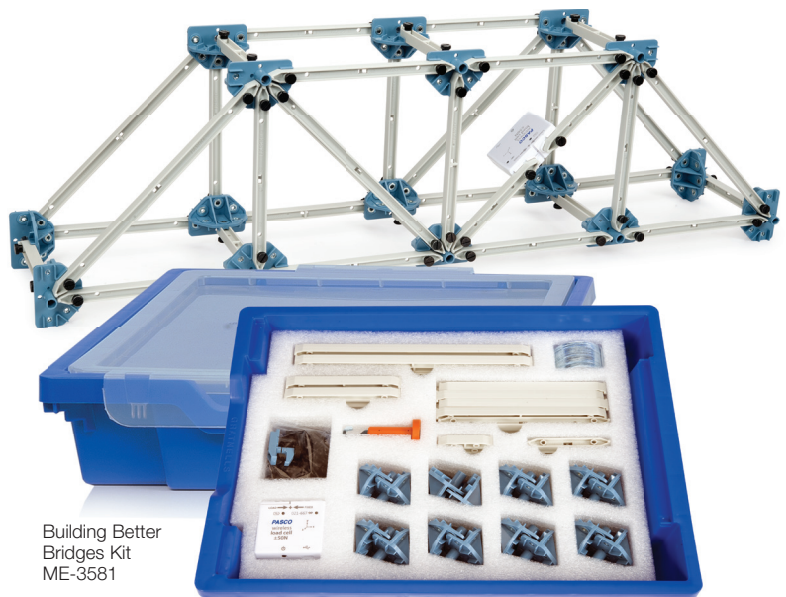
Get Started with the Building Better Bridges Kit

Teach engineering concepts with this complete STEM bridge-building kit.

Now is the perfect time for your students to learn about bridge building and how bridges really work. This complete STEM kit allows students to learn and apply engineering design concepts. They can use the I-beams to build bridges and structures that behave like the real thing! And with the included Wireless Load Cell, students can measure forces under tension and compression or anywhere on their structures.

Students can perform the following lab investigations using PASCO's Building Better Bridges Kit:

- Measuring Forces
- Equilibrium of Forces
- Equilibrium of Rotation
- Forces in Trusses
- Forces in Bridges



Building Better
Bridges Kit
ME-3581

PASCO

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