

challenge #2

bridging the gap



Put your design efficiency skills to the test. Can you build a Blueprint bridge with fewer parts than your peers?



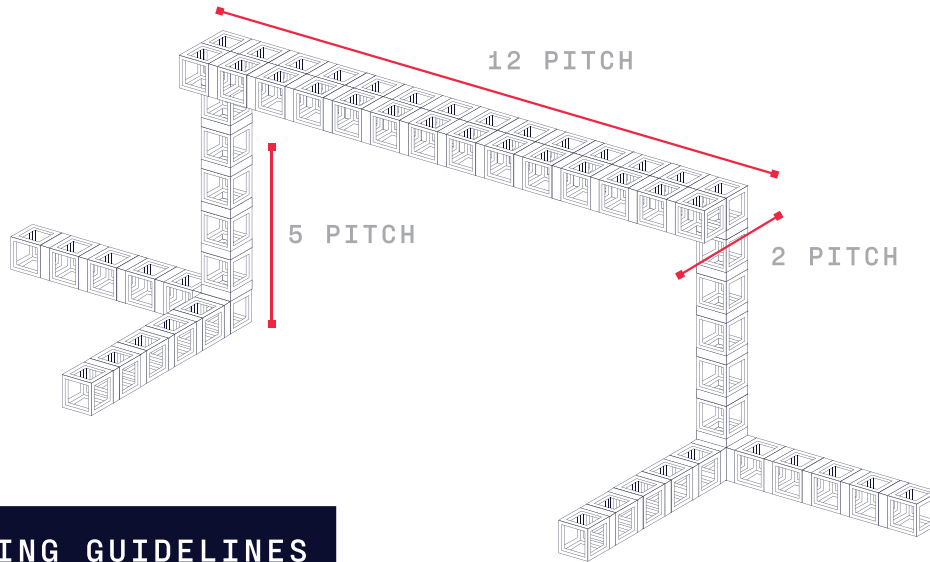
STUDENT HANDOUT
sphero.cc/bpc2sh

YOUR CHALLENGE :

Construct a bridge to hold four textbooks (approximately 8 kilograms).

Your bridge must:

- only contain connectors, trusses, and plates
- be at least 5 pitches above the ground
- include a span that is at least 12 pitch long and 2 pitch wide with no support underneath

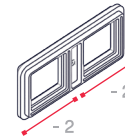


SCORING GUIDELINES

- every team starts with 100 points
- every Blueprint part used deducts points from your score.



EACH TRUSS PITCH
-2 POINTS



EACH PLATE PITCH
-2 POINTS



CONNECTOR
-1 POINT