

BRICKS CHALLENGE

BRIDGE BUILDING

DESIGN AND BUILD A STURDY BRIDGE

SUPPLIES: Bricks (variety of sizes and colors), Small weights (e.g., coins, small containers with sand), Ruler or measuring tape, Timer or stopwatch



TIME CONSTRAINT: 30 minutes (or more if time allows)

Design and build a sturdy bridge that can span a given gap while supporting the weight of specified objects. The challenge is to create a bridge with both strength and stability.

Planning Phase:

Allow participants a designated time to plan and sketch their bridge designs. Encourage them to consider the structural elements necessary for a strong and stable bridge.

Building Phase:

Start the building phase, providing participants with the designated bricks and any additional materials.

Testing:

Once the bridges are built, test their strength by placing weights on them.

Evaluation and Iteration:

Evaluate each bridge based on criteria such as strength, stability, and adherence to constraints. Allow participants to make adjustments and improvements to their bridges based on initial testing.

Sharing and Discussion:

Discuss the different strategies used, challenges faced, and lessons learned during the process.

