

Review last weeks lesson

-Sample Questions-

- What is a joint?
- What does a strong joint look like?
- What are different ways to make a joint strong?

Pass out this weeks worksheets

-Go over and have students read through the worksheet in class.

Extra Facts about the Great Wall

-Reportedly millions of people died putting up the wall and many were buried next to the wall. Making it the longest “cemetery” on earth.

AMAZING ANCIENT STRUCTURES

Engineering with LEGO Bricks
Brain Builders Educational Programs

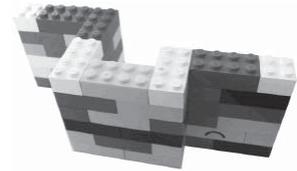


The Great Wall of China

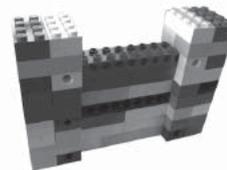
The Great Wall of China protected China from invaders and is built along its northern border. Construction started during 7th century B.C. which means parts of the wall are over 2700 year old! The wall stretches over 13,000 miles long and was built mainly out of stone and brick and zigzags through the forest and over hills. Along the wall there were over 25,000 watchtowers built! To this day the wall still stands and you can even walk on it.

Can you build a wall that zigzags back and forth in different directions?

CHALLENGE 1: Construct a wall that zigzags in more than one direction. Use both regular and technic pieces. Your wall should be able to stand on its own and be at least 4 bricks tall.



Can you build a wall that with at least 2 towers connected to it?



CHALLENGE 2: Team up with one or two classmates to build a wall at least 10 bricks high with at least 2 towers connected to the wall. After you are done, put it up against Brain Builder's Box Cannon!

Challenge 1 - Individual build

Build a wall that zigzags in more than one direction and is self standing. Must be at least 4 bricks high.

- Allow students to use the extra 2x4 bricks provided
- encourage the incorporation of technic bricks in the wall
- Test its strength by hitting the wall with the wrecking ball. If it topples over or breaks, the student must rebuild.

Challenge 2 - Individual build or Team of 2 or 3 Build

Build a wall with at least 2 towers connected to it. Wall must be at least 7 bricks high and self standing. Test it out against the wrecking ball.

- Build a wall at least one foot long.
- What team can build the longest wall. Award engineering bucks for the team that builds the longest wall.