

All right so, here's how we're going to begin this.

I need at some point your group to come up and I need you to explain what makes your bridge strong.

How did you made your bridge fit this challenge.

And you can pick from the cup.

So, when you come up, your bridge is going to be filmed by this camera over here and we're going to be seeing it over here, right? Like we have been doing so far.

But the difference is when you see a camera, your bridge over here, I need you to come and explain to the class using the picture, the video of your bridge, what is it about your bridge that makes it special.

And there's 2 things that I want your group to focus on. How did you make your bridge strong to withstand being squeezed? What part of your bridge do you think is going to be squeezed, compressed? And what part of your bridge do you think is going to be stretched out?

In other words, what part of your bridge is going to be under tension, right? So, I put these 2 things here to help us begin that conversation because when you come up here, you're going to have to say that to the class so here's one way to say it.

I know my bridge, first you need to start with a prediction of how much you think your bridge can take.

The challenge is can it take 1,500 grams, right? You need to talk to your group. Is your bridge up to the challenge?

I want to-- did I tell you about this bridge?

Yeah.

Yeah.

It took like 3,000. It took 3,000 grams for 10 seconds and did not break. It only broke with 3,500 grams. So, when this group came up, they were able to tell me, oh, we put this bar up here because we know that there's going to be a lot of compression coming from the beam. So, we reinforced it.

We also knew that the bottom is going to be stretched out, that's where it broke, [inaudible]. And so, we added some tape there to make it stronger. That's the kind of explanation that I'm hoping your group can do and more about what is it about your design that makes it special.

Remember, you also had to make your bridge look good. What is the sign for me that this bridge has care for it to look good?

What was one of the things that we're looking for?

Yes?

Right triangles.

It has right triangles.