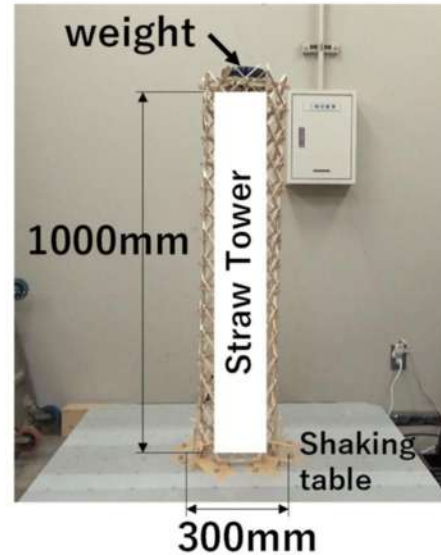


## Challenge

### 1. Tower creation

- Towers are created by combining straws to compete for high vibration resistance performance and design.
- Straws and nylon strings are used. Glue cannot be used. Materials will be prepared by us.
- Shape requirements for the tower
  - The height of the tower must be 100cm or more.
  - The flat bottom of the tower must be 30 cm square or less.
  - The top of the tower (at least 100 cm high) must be able to hold a weight (500 g) so that it will not fall down. The weight should not be glued to the tower, but only placed on it.



### 2. Presentation

- Make a presentation about your original idea or design for the tower in 10 minutes using PPT.

### 3. Shaking table test

- The straw towers created are subjected to horizontal vibration using a shaking table to compete for performance.
- The seismic wave is JMA Kobe.
- The time to resist the vibration is evaluated.