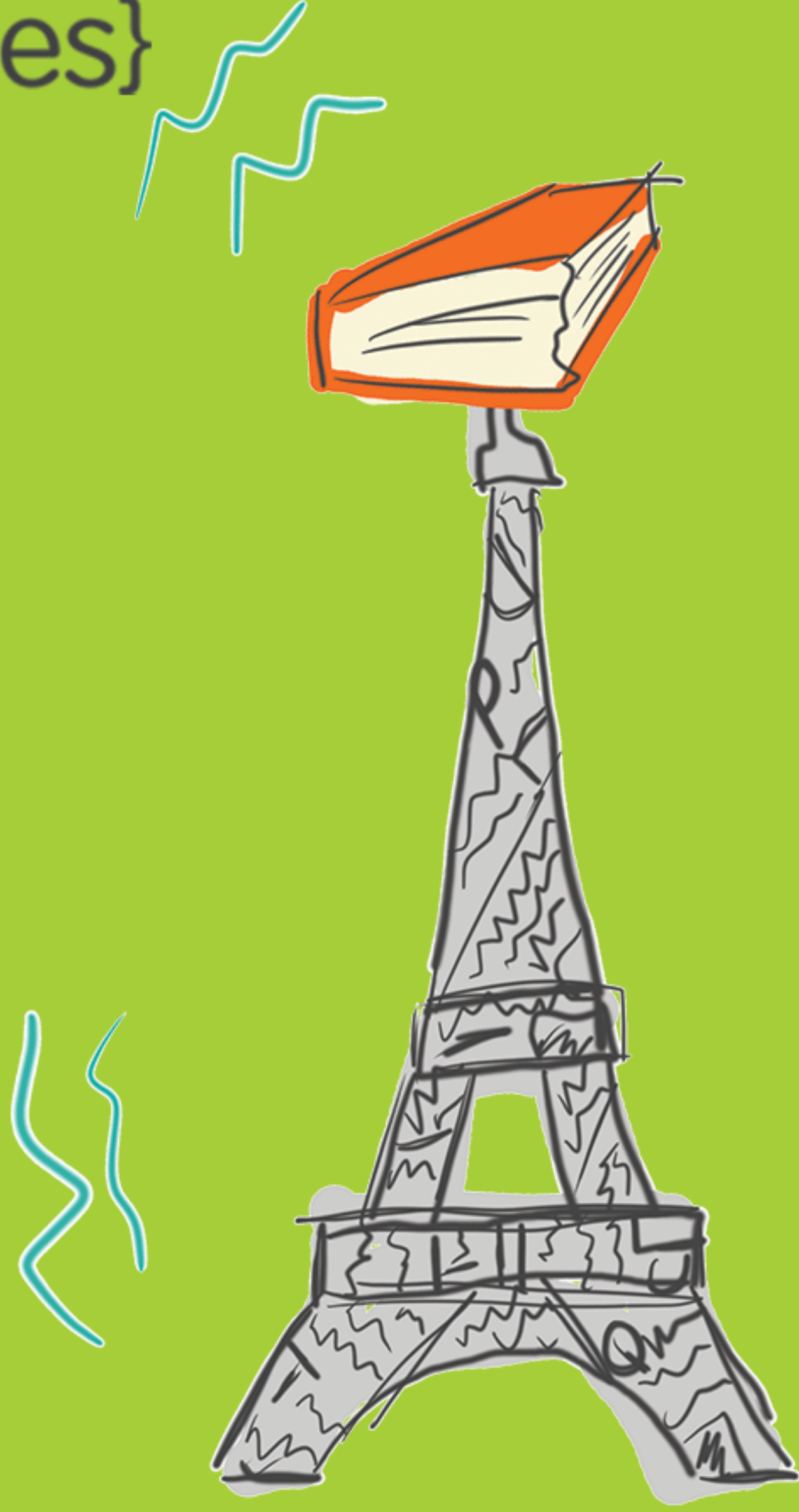


**Maker**  
{Futures}



**Shaking Structures**  
**Challenge**

# What you need:

- **A book**
- **Newspaper**
- **Tape**

# Shaking Structures

## {Challenge}

Can you build a 30cm tower out of newspaper that can hold a book steady in an earthquake?

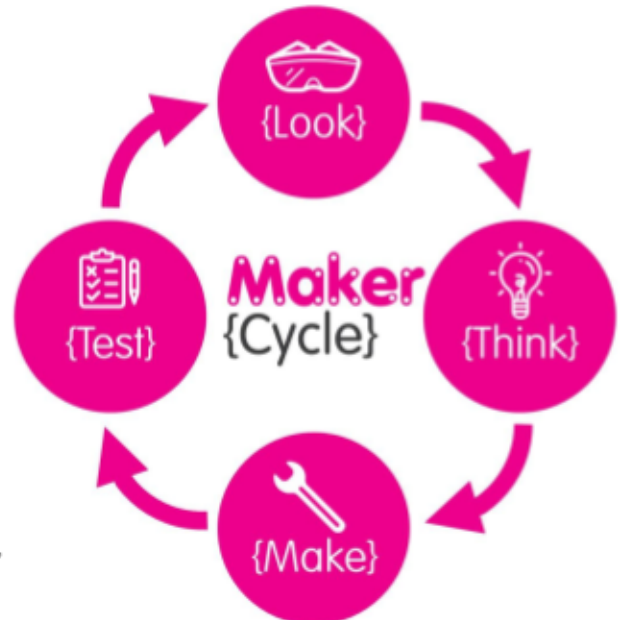


## What you need

- A book
- Newspaper
- Tape

## Use the Maker{Cycle} to create like a Maker:

- **Look** at designs of earthquake proof buildings online to see how designers keep buildings steady from vibrations.
- **Think** about your design, sketch out some ideas, how can you keep your book steady?
- **Make** your tower using only sellotape and newspaper. Make sure it is 30cm tall.
- Place your book on top of your tower to **test** how stable it is. How could you **make** your tower design stronger?
- **Test** your design in your 'earthquake'. Place your tower on the floor with the book on top, now jump around it. Does your design hold your book steady?



## {Top tip}

1. Try rolling up pages of the newspaper tightly and taping them together to give it strength.
2. The wider the base of your tower the more stable it will be!

