

Congruence is a topic learned in junior form mathematics. Most students only recognise SSS as a condition of congruence, many of them aren't aware that it is related to the rigid shape of a triangle.

Therefore, I typed it on a drawing of the memo paper. In contrast with the simple and plain background, it will immediately stand out and capture the attention of the readers.

In order to visualize how solids change their shape deform when force is applied, I drew the 'before and after' of the 3D solids. I pointed out triangles are the best at taking force. The data is used from a real experiment shared by Participant J0306 of the California State Science Fair, who shared his findings online.

The next step is to apply it back to architecture. With the help of a bridge simulator, I found out what would happen if we use different shapes to build bridges. If I used words to express it, it would make the layout messy, affecting the reading experience of the readers. Because of this, I used pictures to again, help the readers better understand the situation. Lastly, I traced the shapes of famous bridges around the world and highlighted the parts that used triangles, linking the infographic back to this year's topic 'Mathematics In Architecture' .

We can bring the flat 2D shapes on our math books to real life, apply them to architecture and help people build safer and cheaper structures. One of the major comments that most people have on mathematics is that it is useless and won't be applied in real life. I hope my infographic will prove to them that mathematics can be applied in real life and is beneficial to society.