

Staircases are one of the many things we come across almost every day – yet, do you know how they are constructed to be the sturdy, sustainable and precise infrastructure we all know? The infographic explains how mathematics is used in architecture - namely stairs. By calculating the exact rising (height) and going (width) of the steps, they are all identical and equal, with the same rising and going. We can also calculate the angle of the stairs by dividing the total run by the total rise and using the quotient to calculate its inverse tangent. Studies show that an angle of under 41° is recommended for stairs. This ensures that the stairs are easy to climb and not too steep, so we don't waste our energy and save it for other uses. The infographic also includes a useful table that states the recommended maximum and minimum rising and giving the height of the steps. The goal of the infographic is that people can design the stairs of their dreams with guidelines that are easy to understand!