Math in Architecture

From Past to Present

Beginner: Point out the different shapes you see in buildings around you.

[Tip]: Talk about how buildings are made up of different shapes like squares, rectangles, and arches.

Intermediate: Encourage your child to point out the different shapes they see in buildings.
[Tip]: Talk about the similarities and differences between buildings and the shapes used to make them.

Experienced: Point out the different 3-dimensional shapes used in architectural design.
[Tip]: Peaked roofs form a triangular prism, domed roofs are half of a sphere, grain silos and columns are cylinders.

Why is this important? Learning to see the shapes and angles that make up the buildings around us is helpful for further mathematical progression.

Looking for more information? Check out our website's resource on <u>Shapes</u>.

References: Williams, K. (1998) Architecture and Mathematics: An Introduction for Elementary and Middle School Children. https://www.researchgate.net/publication/335000979_Architecture _and_Mathematics_An_Introduction_for_Elementary_and_Middle_School_Children