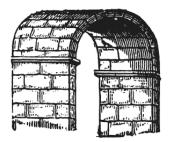
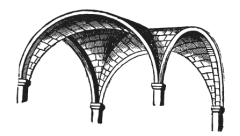


ARCH:
The basic building block of Roman
Architecture



BARREL VAULT:
The arch extended
to form a
curved ceiling



GROIN VAULT: Two barrel vaults intersecting at right angles



## THE ARCH

The arch could support heavy structures because it spread the weight of the load. Extending the depth of the arch from front to back led to the development of the *barrel vault*. In the example to the left, we see the barrel vault being used for a hallway in the ancient Baths of Caracalla in Rome early in the third century.

Barrel vaults then led to the invention of the *groin vault*. The groin vault was the result of two barrel vaults being joined at right angles, which made intersecting hallways with curved ceilings possible and led to new possibilities in architecture.