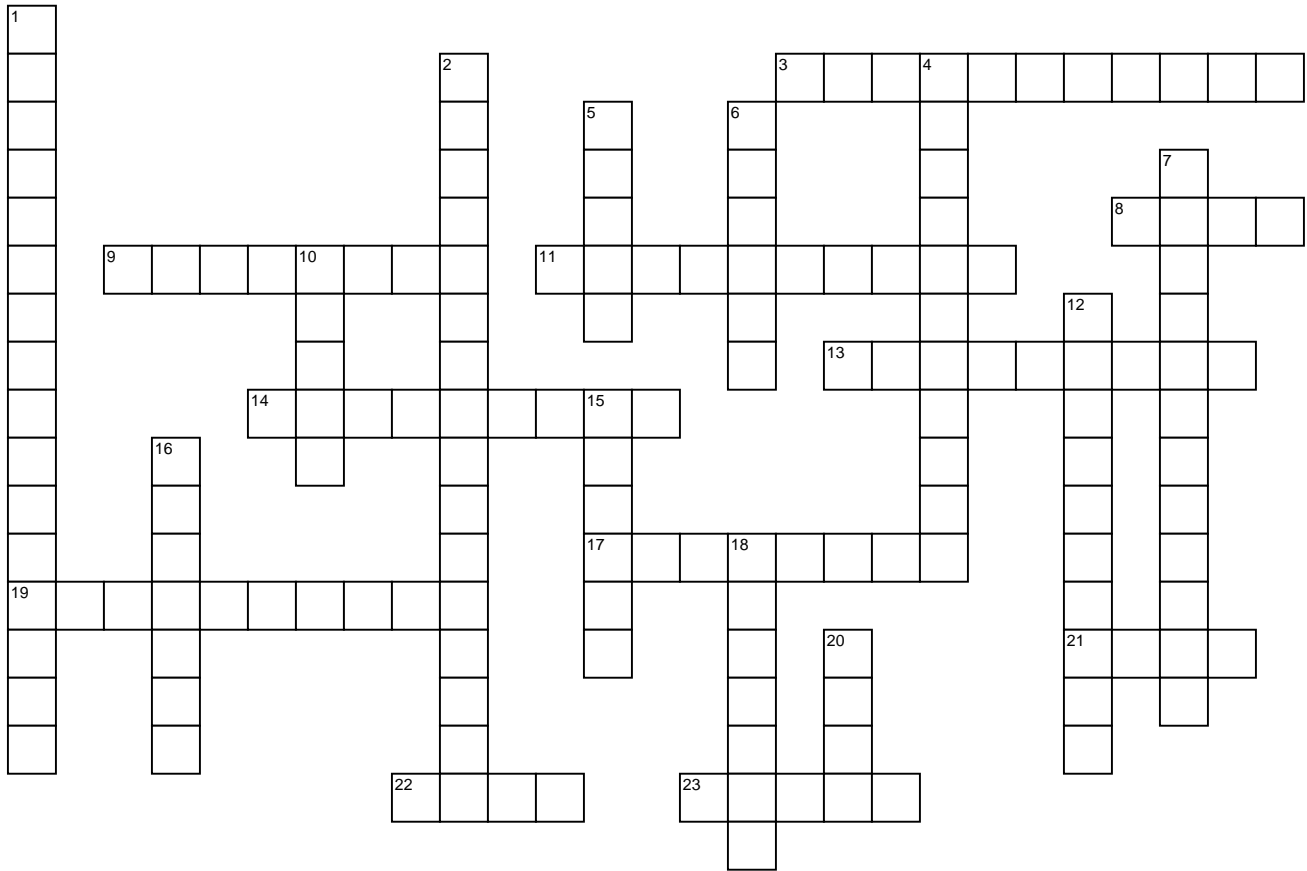


Structure and Design Definitions



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ACROSS

- 3 A bridge that consists of an assembly of triangles.
- 8 A rigid, usually horizontal, structural element
- 9 A force applied or distributed over an area
- 11 A bridge that has a deck that can be raised and lowered.
- 13 The distance around the outside of a shape
- 14 A person who designs all kinds of structures.
- 17 Characteristic of a structure that collapses or deforms under a realistic load.
- 19 A term coined in the 1880s, shortly after the first tall buildings were constructed in the United States
- 21 A curved roof enclosing a circular space.
- 22 Supported roadway on a bridge.
- 23 A device connecting two or more adjacent parts of a structure.

DOWN

- 1 Long, stone arms that supported a Gothic cathedral's heavy weight, allowing the walls to be filled with colorful glass windows.
- 2 A bridge in which the roadway deck is suspended from cables that pass over two towers.
- 4 A bridge that has a deck that rotates around a center point.
- 5 An architectural or decorative feature of a skyscraper.
- 6 Characteristic of a structure that is able to carry a realistic load without collapsing or deforming significantly.
- 7 A dome composed of short, straight pieces joined to form triangles.
- 10 Floor of a skyscraper.
- 12 A bridge that consists of a horizontal beam supported at each end by piers.
- 15 A vertical, structural element.
- 16 An action that twists a material
- 18 A stretching force that pulls on a material
- 20 The distance a bridge extends between two supports.

WORD BANK: Architect, beam, beambridge, column, deck, dome, drawbridge, flyingbuttresses, geodesicdome, joint, perimeter, pressure, skyscraper, span, spire, stable, story, suspensionbridge, swingbridge, tension, torsion, trussbridge, unstable.

Structure and Design Definitions

Solution:

