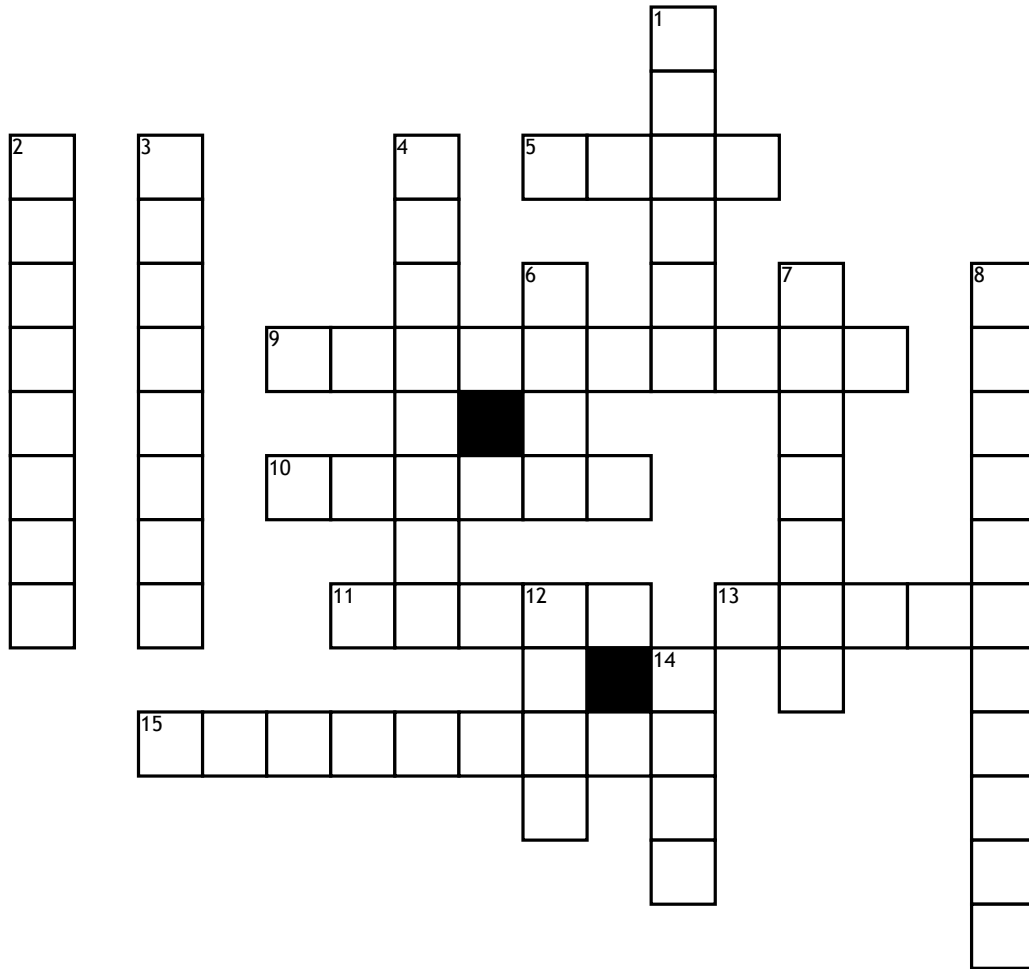


Name: \_\_\_\_\_ Date: \_\_\_\_\_

# Bridge Building Vocabulary



## Across

5. weight distribution throughout a structure

9. a projecting structure supported only at one end, like a shelf bracket or a diving board

10. to change shape

11. a rigid frame composed of short, straight pieces joined to form a series of triangles or other stable shapes

13. any action that tends to maintain or alter the position of a structure

15. forces are spread out over a greater area, so that no one spot has to bear the brunt of the concentrated force

## Down

1. ability to resist collapse and deformation

2. what happens when tension overcomes an object's ability to handle tension

3. what happens when the force of compression overcomes an object's ability to handle compression

4. forces are moved from an area of weakness to an area of strength, an area designed to handle the forces.

6. a vertical supporting structure, such as a pillar

7. A force which acts to expand or lengthen the thing it is acting on

8. a force which acts to compress or shorten the thing it is acting on

12. the distance between two bridge supports, whether they are columns, towers or the wall of a canyon

14. a rigid, usually horizontal, structural element

## Word Bank

PIER

DEFORM

STABLE

BUCKLING

TRANSFER

SNAPPING

BEAM

COMPRESSION

TENSION

LOAD

DISSIPATE

FORCE

CANTILEVER

TRUSS

SPAN