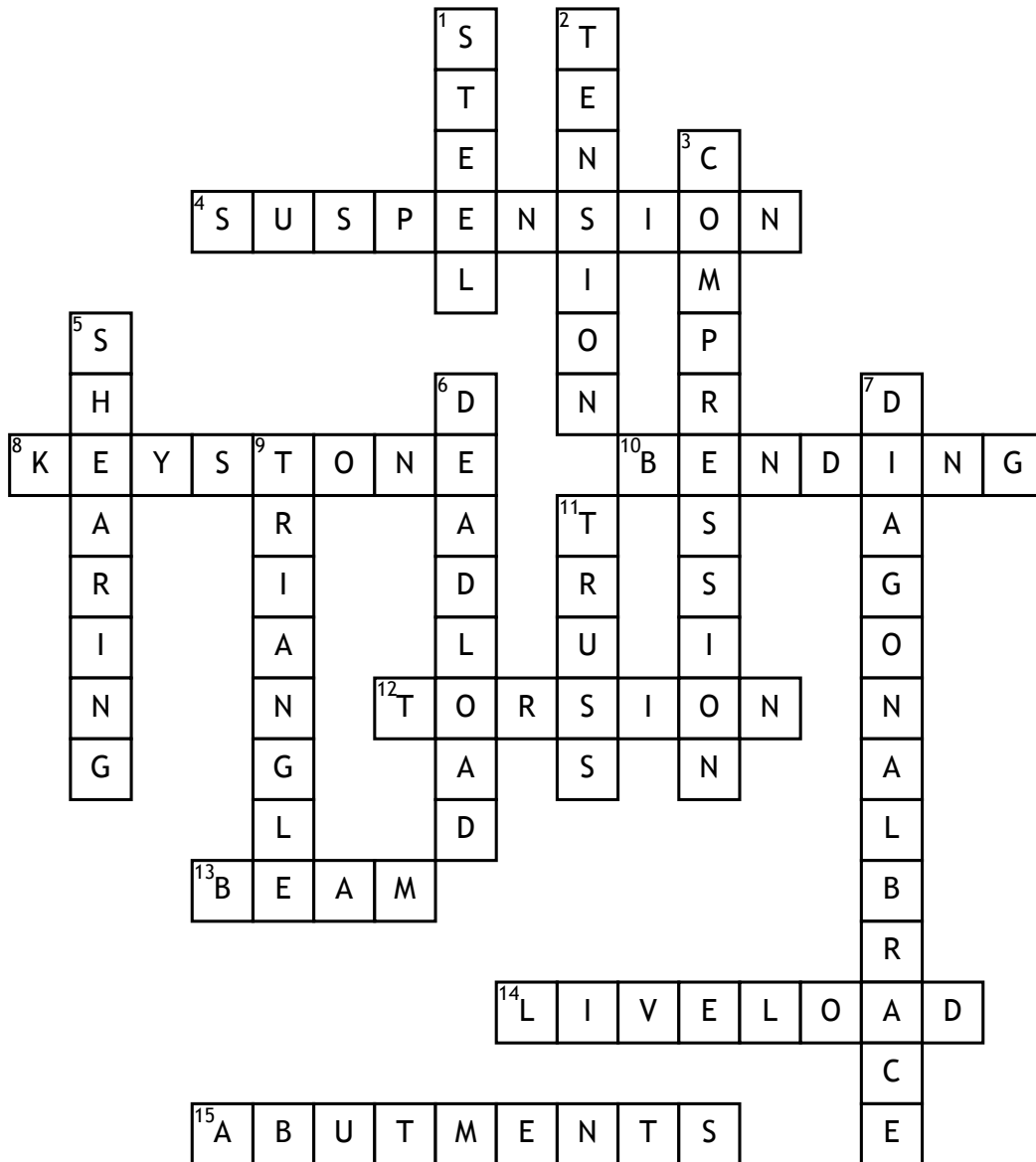


Civil Engineering Study Guide 1



Across

4. Which type of bridge can span the longest distances?

8. An arch bridge's shape is held together with a

10. A force that is a mixture of tension and compression

12. An action that twists a material

13. Which bridge is the most susceptible to the bending force?

14. The weight of items on a structure

15. To strengthen an arch bridge, what is used?

Down

1. Cable bridges are made mostly of what material?

2. A force that stretches material apart

3. A force that squeezes a material

5. A force that makes materials slide past one another

6. The weight of the structure itself

7. To strengthen a rectangle, what is used?

9. The strongest and most rigid shape

11. Which bridge uses a triangular design to improve strength?