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Civil Engineering Study Guide 1

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| **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? |