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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? |