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

Bridge Crossword

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| **Across**  **1.** The regular vibration of an object as it responds to an external force.  **4.** The outermost end supports on a bridge, which carry the load from the deck  **8.** A pressing force that squeezes a material together  **15.** Any action that tends to maintain or alter the position of a structure  **18.** The center or highest wedge of arch stone.  **21.** The deformation caused by an external force applied to any piece of material.  **22.** A projecting structure supported only at one end, like a diving board  **23.** A force causing parts of a material to slide past one another in opposite directions  **25.** A structure which is used to transmit the loads from a bridge to the foundation.  **26.** A rope used to support a vertical pole or mast.  **27.** A rigid, usually horizontal, structural element | **Down**  **2.** To bend under compression  **3.** A bridge member carrying compression.  **5.** A rigid frame composed of short, straight pieces joined to form a series of triangles or other stable shapes  **6.** The distance a bridge extends between two supports  **7.** An angler piece to give strength and stiffness to the members of a structure.  **9.** A structural element formed from steel wire bound in strands; the suspending element in a bridge  **10.** A large beam, usually steel or concrete  **11.** The spreading course at the base of a foundation  **12.** Supported roadway on a bridge  **13.** An action that twists a material  **14.** Weight distribution throughout a structure  **16.** A state where the object is moving at constant speed in a straight-line path  **17.** A bridge in which the roadway deck is suspended from cables that pass over two towers  **19.** An internal force that resists the change in shape and size of a body subjected to external forces.  **20.** A stretching force that pulls on a material  **24.** A curved structure that converts its own weight into an outward force along its sides and base |

   Abutments       Arch       Beam       Buckle       Cable       Cantilever       Compression       Deck       Equilibrium       Footing       Force       Girder       Gusset       Keystone       Load       Pier       Resonance       Shear       Span       Stay       Strain       Stress       Strut       Suspension       Tension       Torsion       Truss