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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