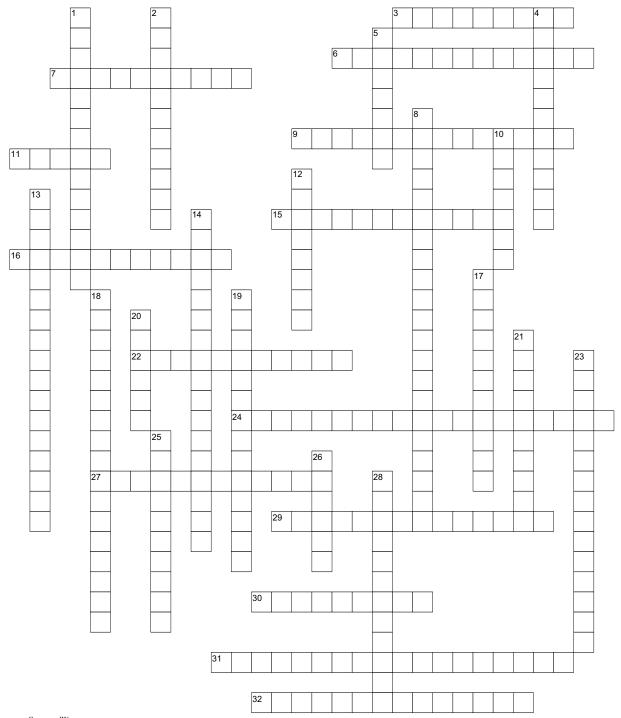


Lesson 2.3 Key Term Crossword



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ACROSS

- 3 The law stating that the stress of a solid is directly proportional to the strain applied to it.
- **6** Method of prestressing concrete whereby the tendons are elongated and anchored while the concrete in the member is cast, and released when the concrete is strong enough to receive the forces from the tendon through bond.
- 7 The fractional increase in a material's length due to stretched between two points. stress in tension or to thermal expansion.
- **9** The ratio of actual strength to required strength.
- 11 An influence on a body which causes it to body's time rate of change of momentum.
- 15 Refers to reinforcing concrete in which internal stresses have been introduced to reduce potential tensile stresses in the concrete resulting from loads Graphical representation of a material's mechani
- 16 Any alteration of shape or dimensions of a body caused by stresses, thermal expansion or contraction, chemical or metallurgical transformations, or shrinkage and expansions due to longer applies. moisture change.
- 22 The probability that a component part, equipment, or application of pressure; the reciprocal of the bulk system will satisfactorily perform its intended function under given circumstances, such as environmental conditions, limitations as to operating The ability to get answers to questions through a time, and frequency and thoroughness of maintenance for a specified period of time.
- 24 The ratio of the increment of some specified form 20 Change in the length of an object in some direction stress to the increment of some specified form of strain, such as Young's modulus, the bulk modulus 1. The collection and analysis of numerical data in or the shear modulus. Also known as coefficient of elasticity, elasticity modulus, elastic modulus.
- 27 Maximum stress that a material will withstand without permanent deformation.
- 29 The stress required to fracture a material whether by rupture strength, seldom indicates true stress at compression, tension, or shear.
- 30 Mechanical property of a material that indicates the A mechanical property of a material that shows h ability of the material to handle overloading before it effective the material is absorbing mechanical fractures.
- 31 Test methods used to examine an object, materia 26 The force acting across a unit area in a solid or system causing permanent damage to its usefulness.
- **32** Sometimes referred to as Tensile Strength; determined by measuring the maximum load a material specimen can carry when in the shape of a fulfill its purpose. rectangular bar or cylindrical can.

- quality requirements; includes process monitoring and the elimination of root causes of unsatisfactc product or service quality performance.
- 2 A measure of how easily a material can be twiste
- **4** A force with its resultant passing through the centroid of a particular section and being perpendicular to the plane of the section. A force a direction parallel to the long axis of the structur
- 5 The condition of a string, wire, or rod that is
- 8 Test methods used to examine an object, materia or system without impairing its future usefulness.
- **10** The loss of the load-bearing ability of a material accelerate; quantitatively it is a vector, equal to the under repeated load application, as opposed to a single load.
 - 12 The average of the squared differences from the
 - properties.
 - 14 Point at which the deformation is no longer direct proportional to the applied force. Hooke's Law no
 - 17 When a material is reduced in volume by the modulus.
 - 18 A statistical measurement of variability.
 - conscious, organized process. The answers are usually, but not necessarily, quantitative.
 - per unit.
 - large quantities.
 - 23 Nominal stress developed in a material at rupture Not necessarily equal to ultimate strength. Since necking is not taken into account in determining rupture.
 - energy without sustaining any permanent damag material resisting the separation, compacting, or sliding that tends to be induced by external force
 - 28 Condition caused by collapse, break, or bending, that a structure or structural element can no long

DOWN

1 Operational techniques necessary to satisfy all