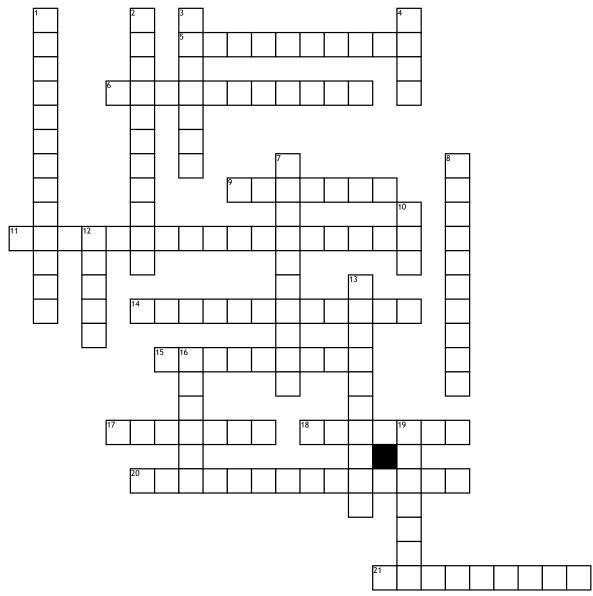
Materials Crossword Puzzle



Across

- **5.** The Modulus of ______ is the area under the elastic portion of the curve.
- **6.** In an "I" beam, this is in the same place as the centroid
- **9.** This is the ratio of the lateral and longitudinal strains
- 11. At this limit the stress is the same as the strain.
- **14.** This modulus is the ratio of shear stress to shear strain.
- **15.** The Modulus of _____ is the area under the entire curve.
- 17. This is the first region of a stress-strain curve.
- **18.** These materials are stronger and can withstand higher stresses.

- **20.** This is the largest amount of stress a material will undergo before it begins to fail.
- **21.** This occurs at the point of zero shear

Down

- **1.** At the nuetral axis, this is at its maximum.
- **2.** The engineering failure stress is the point that is calculated, but the
- _____ stress is the actual point.
- These materials are easily broken.
 The bending stress has this value at
- **4.** The bending stress has this value at the outer fibers of a beam.
- **7.** This point on the stress-strain curve is where the curve flattens out before reaching strain hardening.

- **8.** Percent _____ is the amount that a material changes in length compared to its original length.
- **10.** This machine was used to apply forces to rods until they ruptured (abreviation)
- 12. ____ moment of inertia is used to calculate an object's ability to resist torsion
- 13. The Modulus of ______ is represented by the letter "E"
 16. The 0.2% _____ method is
- a way to measure the yield point on a curve.
- **19.** The moment of _____ is a body's tendency to resist angular acceleration.