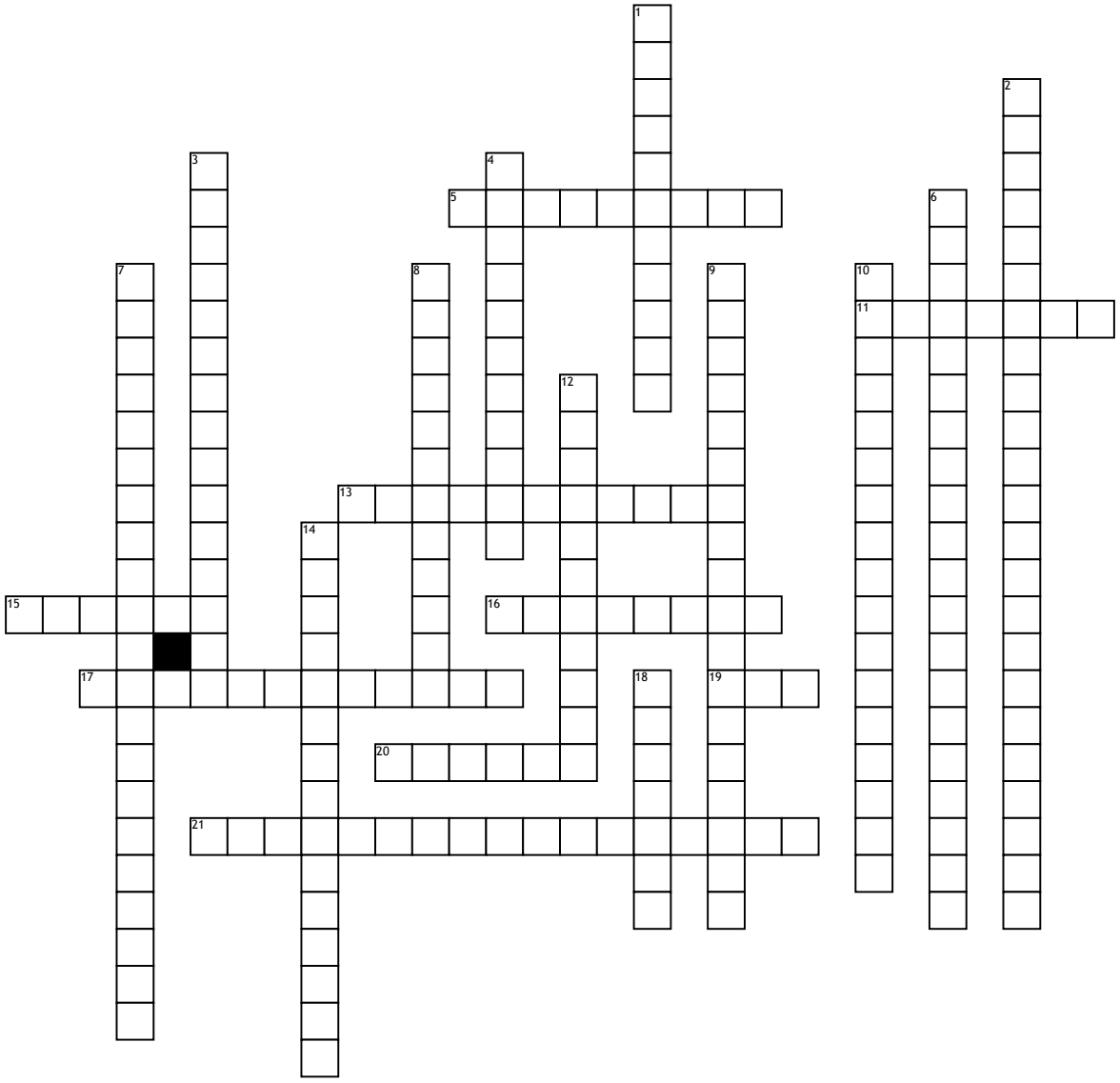
Name: _____ Date: _____

MECH 307



Across

5. This property of material is normally characterized by a large plastic region

11. Answer to #6 is only valid in what region of the stress-strain curve

13. Where bending stress is 0

15. When shear is 0, what is at its max

16. The largest stress on the stress-strain curve

17. Slope of the linear portion of the Shear Stress-Strain curve

19. This can be used to axially load a member in a lab

20. The Modulus of Elasticity relates stress and strain using what law?

21. Point at which an axially loaded member ruptures

Down

1. Opposite of #2, also characterized by a material's inability to deform before rupture

2. End of the linear portion of the elastic region

3. Second Moment of Area

4. Location of maximum bending stress

6. Describes a members ability to resist torsion

7. At #13, this is at the maximum

8. Poisson's Ratio relates lateral strain with what strain?

9. Area under entire curve

10. Ratio of change in length to initial length

12. Point where Elastic region ends and Plastic region begins

14. Can be used to to find #11

18. The Modulus of Resilience is the area under what portion of the Stress-Strain curve