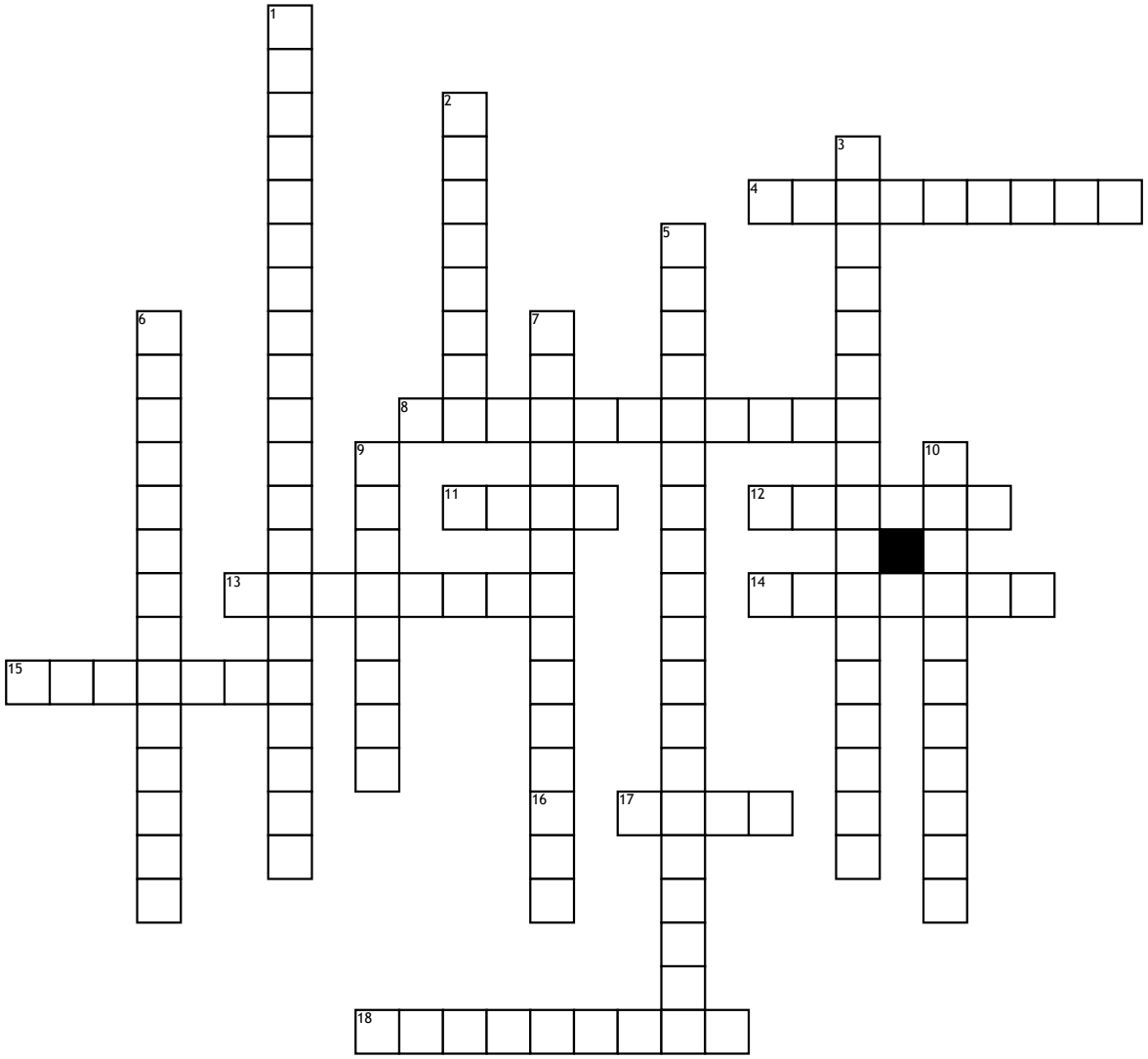
Name: _____ Date: _____

10% of My Grade



Across

4. What is another way of saying σ = Eε?

8. Where is bending strain zero in a beam?

11. On a shear diagram, what happens at the point of loading?

12. Which method is used to graphically estimate the yield point of a material?

13. Where is the deflection of a simply supported beam maximum?

14. Which kind of material has a small value of εrupture?

15. Which kind of material has a large value of εrupture?

16. Which region of a stress-strain curve is linear?

17. For a simply supported beam with a point load at its center, what defines its max moment?

18. What is the formula for finding deflection of a simply supported beam?

Down

1. When calculating torque, which term is dependent on the radius^4?

2. Bending moment decreases with decreasing ___ from point load.

3. If you have the torque on a member, its polar moment of inertia, the angle of twist, and the member's length, what important material property can you calculate?

5. The area underneath the linear portion of a stress-strain curve is called __.

6. Where is bending stress maximum in a beam?

7. What is the highest point of stress on a stress-strain curve called?

9. Where is the shear force greatest on a simply supported beam subjected to a point load?

10. Where is bending stress zero in a beam?