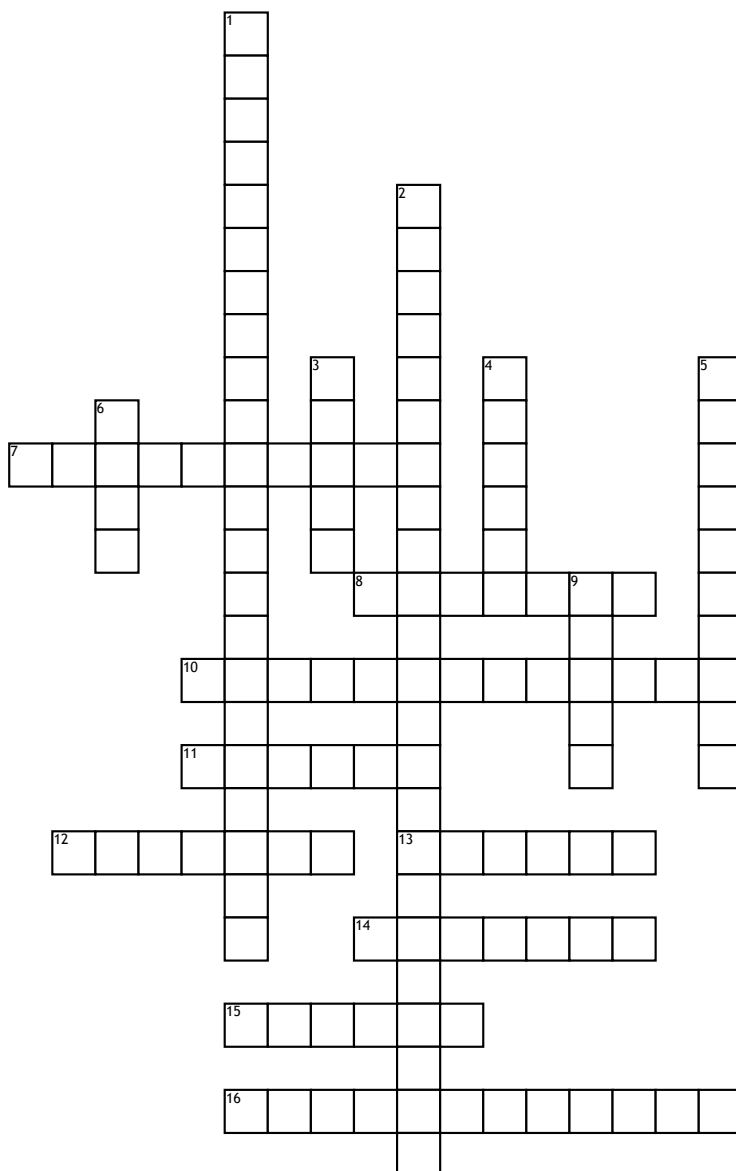


Name: _____

Date: _____

A Level Physics Materials



Across

7. the force applied where the wire weakens temporarily
 8. the mass per unit volume
 10. a value used to compare the stiffness of materials independent of length and area
 11. unit of pressure or stress equal to 1 N m^{-2} .
 12. exhibits plastic behaviour (can be plastically deformed)

13. extension per unit length of a solid when deformed.

14. snaps without stretching or bending when subject to stress

15. high UTS

16. where plastic deformation begins

Down

1. the maximum force applied where Hooke's law is obeyed

2. the maximum stress that is applied to a wire without it snapping

3. steep gradient on stress-strain graph

4. the force per unit cross-sectional area

5. the loss of energy as heat when loading and unloading

6. low UTS

9. the amount of energy a material can absorb before breaking