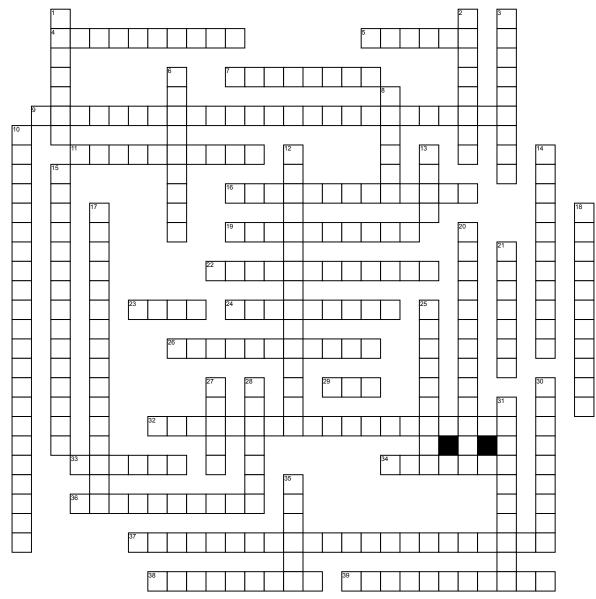
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## Engineering revision



## **Across**

- **4.** doesn't have delocalised electrons to conduct heat or electricity
- 5. elongation/original length
- 7. all thermosetting materials end in this suffix
- 9. maximum stress before deforming
- **11.** hot liquids and gases rise while colder ones fall
- **16.** a heat treatment that adds a protective layer around the material
- **19.** analogue signals are what type of wave
- 22. a smart material that changes colour in responce to light
- 23. the units of resistance
- **24.** distributes electrical charge through two terminals
- 26. force=? + current + length of wire
- 29. glass-reinforces plastic
- **32.** ability to conduct heat

- 33. 1 or 0 in a digital signal
- 34. the type of flow for liquids and air
- **36.** the ability for a material to return back to its original shape after being distorted
- 37. ability to conduct electricity
- 38. behaves like light rays/waves
- **39.** the electrons in metals are what to allow them to conduct heat and electricity

## <u>Down</u>

- 1. signal that can be replicated perfectly
- 2. number of values in a analogue signal
- **3.** a lightweight material that forms a layer when reacted with oxygen
- 6. rapid cooling in water, brine or oil
- 8. an alloy of the materials Cu and Sn
- 10. energy stored in raised objects
- **12.** what type of system to do with magnets its only active when electricity is passed through

- **13.** something wrapped around a core, more increases strength
- 14. lightweight composite material
- 15. highest and lowest voltage on a graph
- 17. stored energy streched
- **18.** reaction with oxygen or water
- **20.** a hardening process that requires aging to increase strength
- 21. the units for pressure
- **25.** one property of ferrous materials that non ferrous materials don't have
- **27.** an alternative name for the ceramic 'borosilicate glass'
- **28.** 9.81
- 30. annealing increases
- **31.** a system that used water
- **35.** a system that stores power when powered