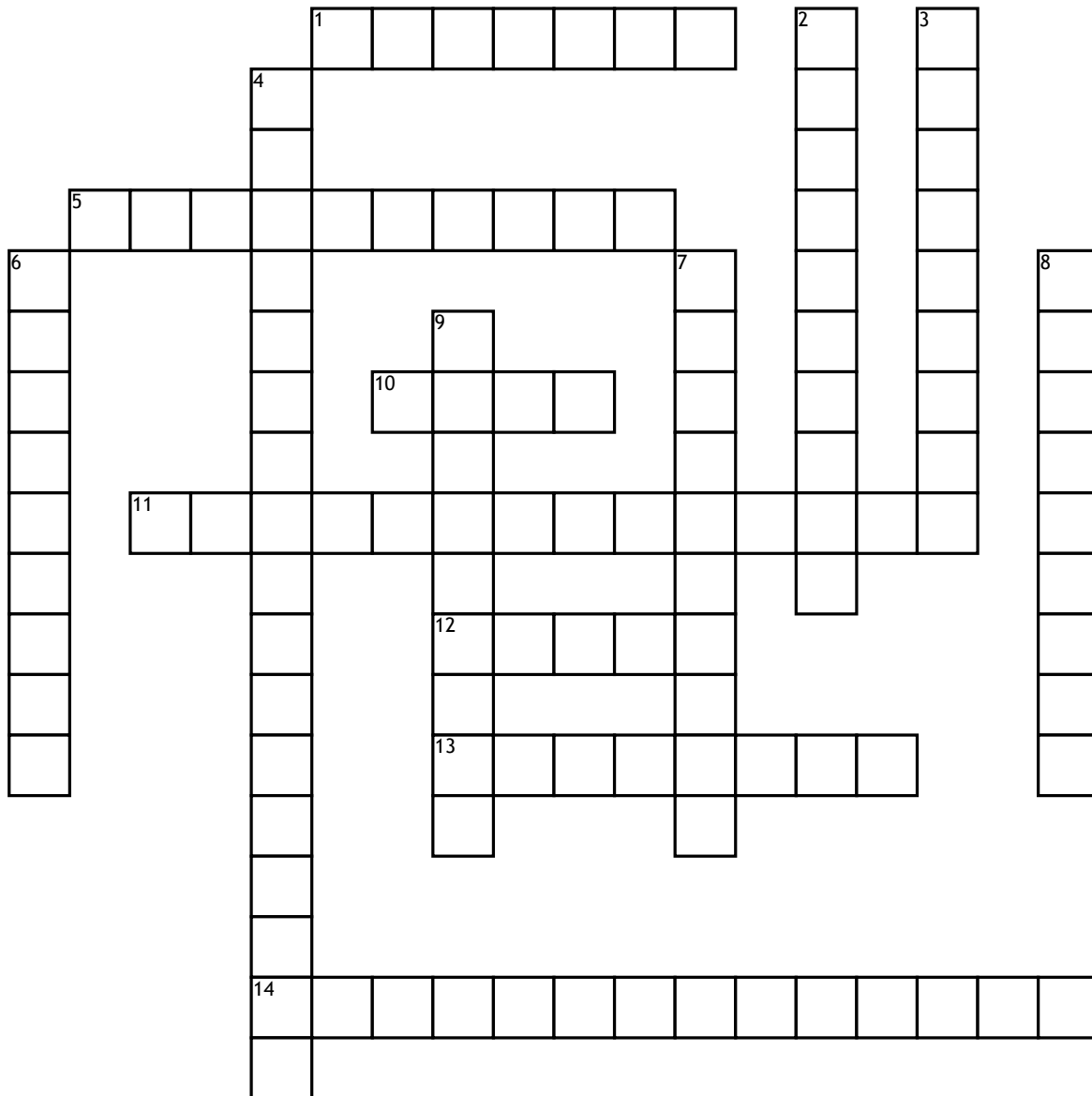


# Materials science Vocabulary crossword



## Across

1. A substance that can dissolve another substance.
5. This refers to the physical properties of a substance, like shape, size, composition and phase distribution. noun
10. In thermodynamics, it is the quantity of energy transferred from one system to another without an accompanying transfer of entropy.
11. engineering that involves manipulating atoms and molecules
12. A mixture of a metal with other elements

13. A container that can withstand very high temperatures and is used for metal, glass, and pigment production as well as a number of modern laboratory processes.

14. A phenomenological description of equilibrium properties of macroscopic systems

## Down

2. the percentage increase in original length (strain) of a rubber specimen as a result of tensile force (stress) being applied to the specimen
3. The resistance of a material to flow.

4. A phenomenon of exactly zero electrical resistance and expulsion of magnetic fields occurring in certain materials when cooled below a characteristic critical temperature.

6. Refers to a substance's ability to absorb energy without suffering structural damage or fracturing.

7. The process of breaking chemical bonds using water.

8. A process of heat treating, which is used to increase the toughness of iron-based alloys.

9. The allowable deviation from a standard