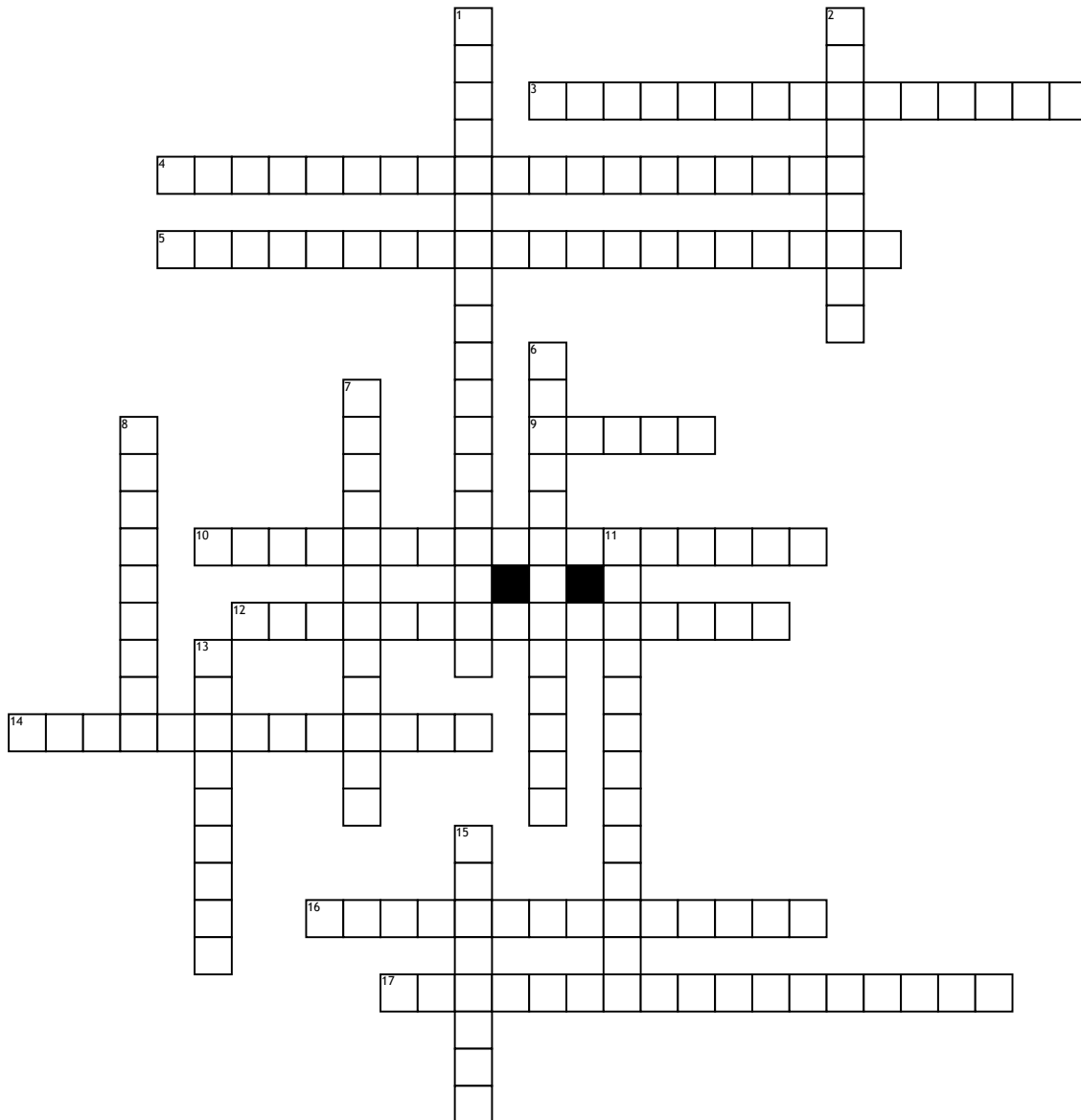


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Materials and their applications - Key Terms



Across

3. A metal which does not contain iron

4. The ability to withstand being crushed or shortened by pushing forces

5. Associated with how a material reacts to an external force

9. A metal made of two or more metals, or combining two or more elements, one of which must be a metal

10. A material comprised of two or more different materials resulting in a material with enhanced properties

12. The ability to resist stretching or pulling forces

14. A material which when heated undergoes a chemical change whereby molecules form rigid cross links

16. A material developed through the invention of new or improved processes

17. A man-made, wood-based composite material

Down

1. Associated with the actual make-up or structure of the material

2. The ability to absorb impact force without fracture

6. A material whose physical properties change in response to an input or change in the environment

7. A metal containing mostly iron and carbon

8. Materials which at room temperatures can be deformed under pressure, and upon release of the pressure will return to their original shape

11. A material that can be repeatedly reheated and reshaped

13. The set of standards sizes in which materials are available

15. The ability to resist abrasive wear such as scratching, surface indentation or cutting