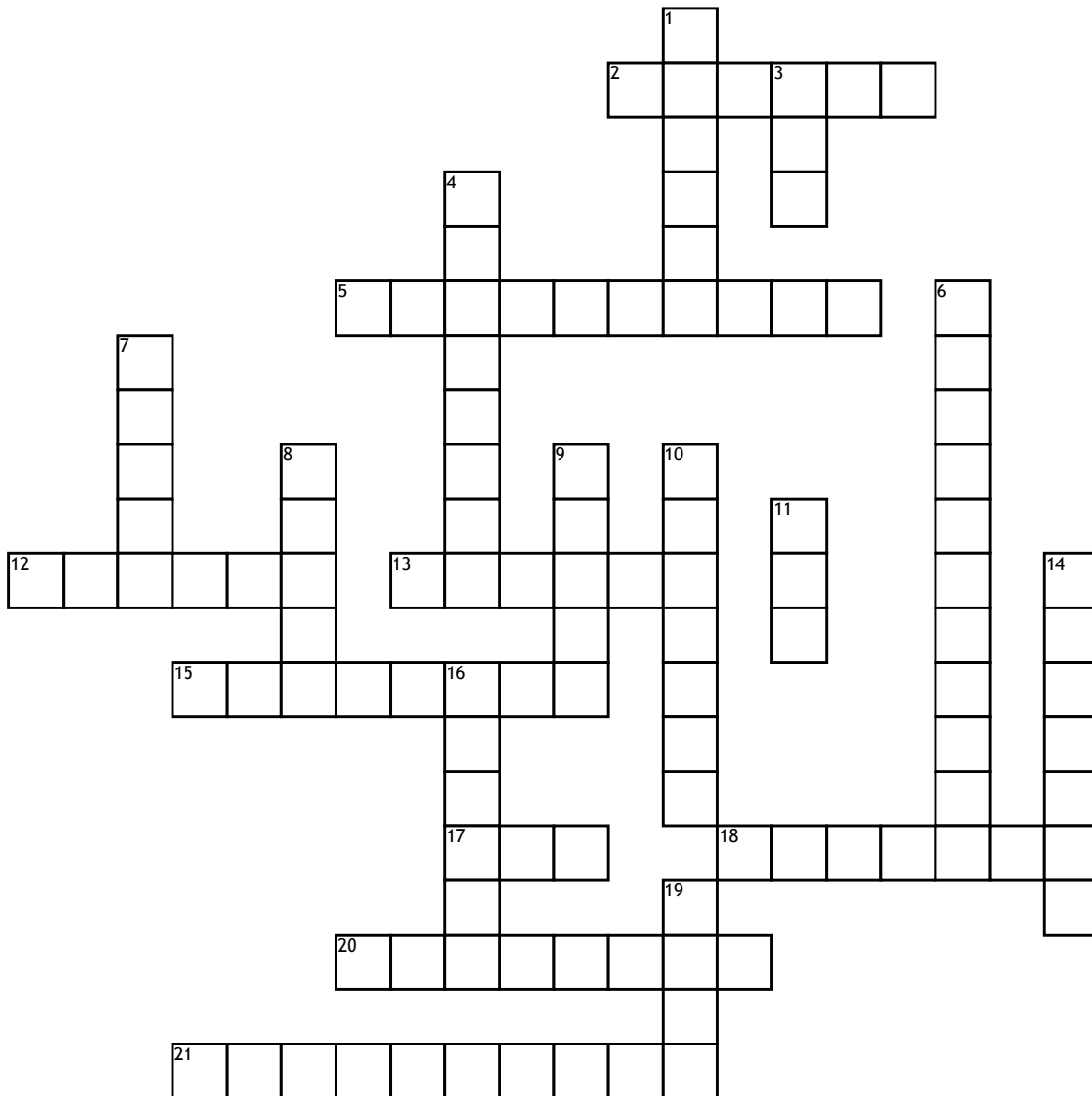


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Petrol and diesel engine construction



## Across

2. Controls the flow of gases into and out of the combustion chamber  
 5. Third stroke of a spark ignition engine  
 12. This component has a trust side and a non-trust side  
 13. The distance between t.d.c and b.d.c  
 15. Some engine blocks are made from this (2 words)  
 17. Enters the cylinder during the induction stroke on a diesel engine

18. Keeps the valves against their seats

20. Stores energy for use during non-firing strokes

21. Converts reciprocating motion into rotary motion

## Down

1. Seal between the cylinder head and cylinder block  
 3. Type of engine configuration  
 4. Rotates at half engine speed in a petrol engine  
 6. All valves are closed on this stroke  
 7. Inlet, exhaust and transfer are examples of these

8. Forms a gas tight seal in the cylinder

9. Name given to the top of the piston

10. This term is used when both valves are open together

11. The number of rotations of the crankshaft to complete all four cycles for a petrol engine

14. Last stroke of a spark ignition engine

16. Wankel is an example of this engine type

19. Transfers drive between the crankshaft and the camshaft and is replaced at some services