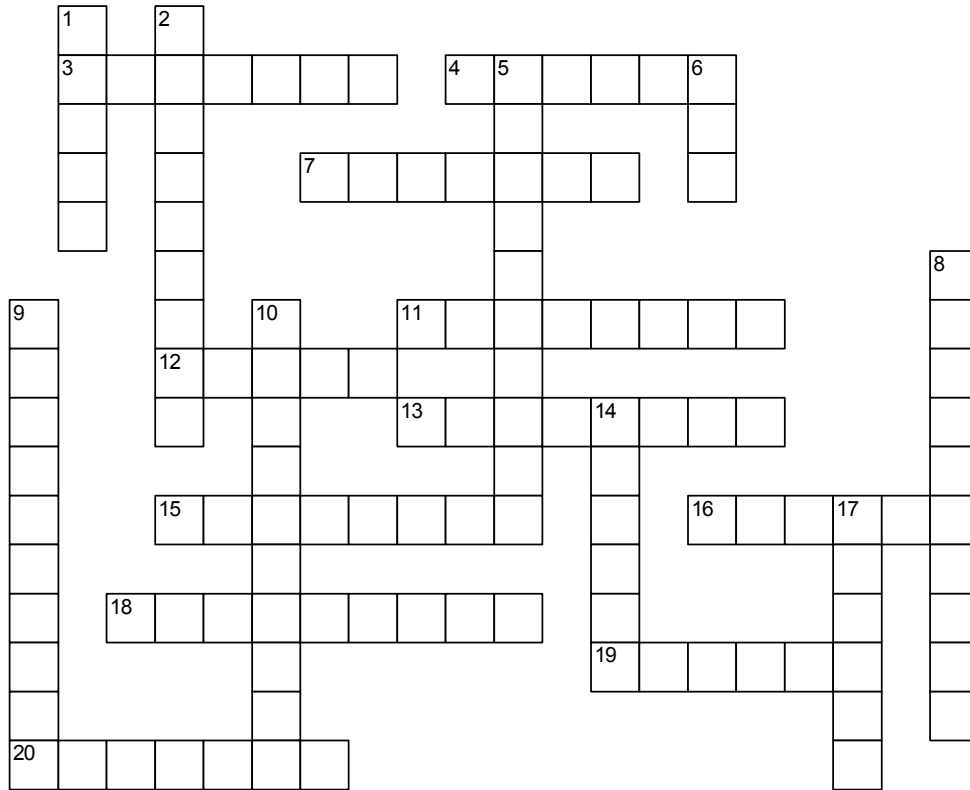


Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Intake and Exhaust Manifolds



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### Across

- 3 When both intake and exhaust valves are open
- 4 Heating of oil until a solid residue remains
- 7 Individual exhaust pipes
- 11 Speed in a certain direction
- 12 Used by a carburetor to richen air-fuel mixture
- 13 "From one to many or many to one"
- 15 Expands at twice the rate of cast iron
- 16 \_\_\_\_\_ dioxide
- 18 Diverts exhaust gases to warm the intake manifold
- 19 Part of a manifold that air travels through
- 20 Can be used to supply heat to the air-fuel mixture

### Down

- 1 Provided by a turbocharger
- 2 tube Absorbs shock waves in the air intake system
- 5 Single plane manifolds have this
- 6 Exhaust \_\_\_\_\_ recirculation
- 8 Fuel droplets must stay in \_\_\_\_\_.
- 9 \_\_\_\_\_ efficiency
- 10 \_\_\_\_\_ chamber
- 14 Used to remove particles from intake air
- 17 Another name for venturi