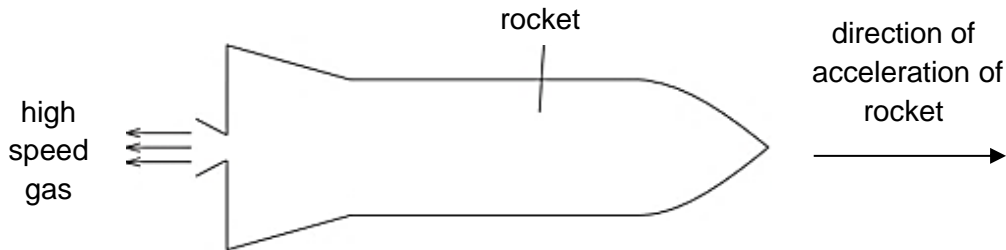


- 5 The engine of a rocket ejects gas at high speed and the rocket accelerates forward in the direction shown below.



Which of the following accounts for the acceleration of the rocket?

- A The gas pushes on the air at the back of the rocket.
- B The ejected gas creates a region of high pressure behind the rocket.
- C The change in momentum of the gas gives rise to a force on the rocket.
- D The momentum of the gas is equal but opposite in direction to the momentum of the rocket.