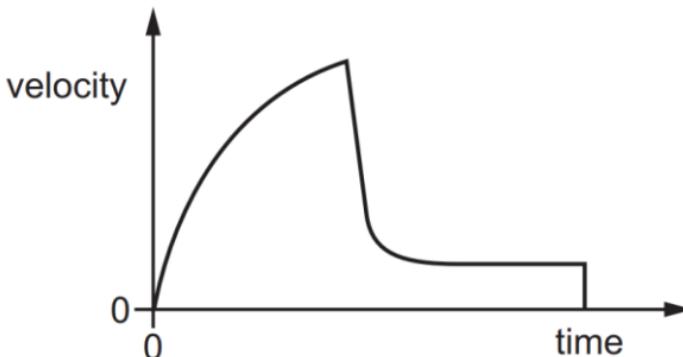


- 4 The graph shows the variation of velocity with time for a stone that falls from a bridge into a lake and sinks to the bottom of the lake.



What can be deduced about the motion of the stone?

- A Terminal velocity was reached in air.
- B The distance travelled in water was greater than the distance travelled in air.
- C The acceleration in air was decreasing with increasing time.
- D The rate of change of velocity in air was constant.

- 5 A box rests on the Earth with forces  $P$ ,  $Q$ ,  $R$ ,  $S$  and  $T$  acting on them as shown. Newton's