

*Odontomachus bauri* is a species of ant that has a trap jaw that shuts rapidly. This jaw system evolved from basic mouth parts that all ants have, but the jaw is longer, the joint is a different shape, and the muscles are larger.

Which of the following statements **best** explains why this trap-jaw trait evolved?

- A. The trap jaw increases the ants' body mass.
- B. The trap jaw allows the ants to eat only one kind of food.
- C. The trap jaw is the ants' only means of species recognition.
- D. The trap jaw increases the ants' chances of survival and reproduction.