

- 2 A helium nucleus approaches a gold nucleus. An electric force and a gravitational force act on each nucleus.

Which statement about these forces is **not** correct?

- ☐ A The electric force between the nuclei is repulsive.
- ☐ B The electric force is always smaller than the gravitational force.
- ☐ C Both forces increase as the nuclei approach.
- ☐ D The gravitational force between the nuclei is attractive.

(Total for Question 2 = 1 mark)