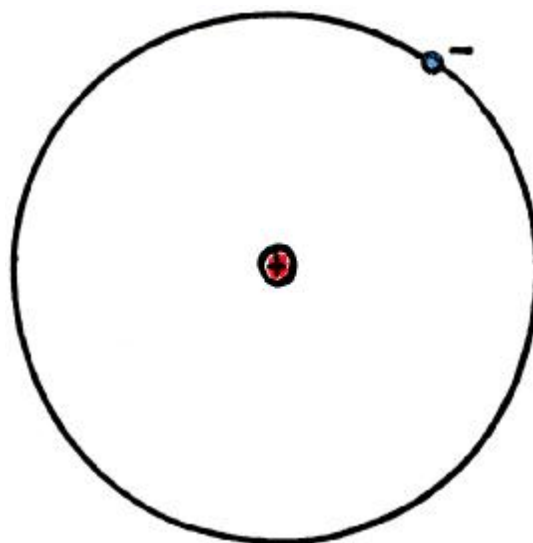


NEXT-TIME QUESTION

Compared to Hydrogen, ${}^1_1\text{H}$,
the element Helium, ${}^4_2\text{He}$ has



- a) more mass and is larger in size.
- b) more mass and is about the same in size.
- c) more mass and is smaller in size.
- d) none of the above.



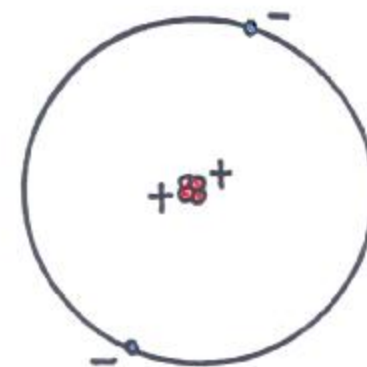
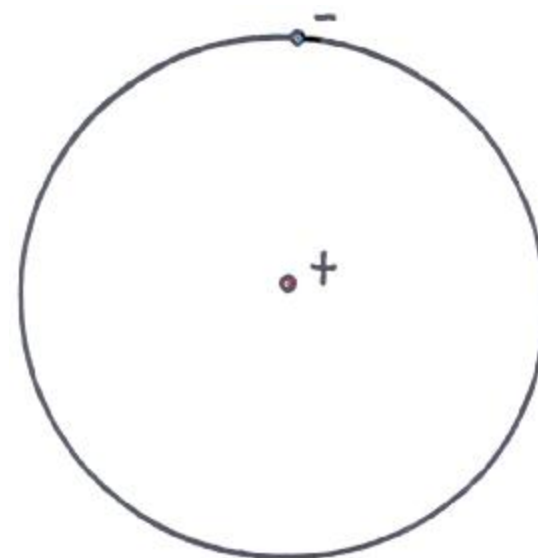
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Answer: c

The nucleus of helium has four nucleons compared to hydrogen's one, so it is about four times as massive as hydrogen. The nucleus of helium has twice the electric charge of hydrogen, and pulls its electrons into a tighter orbit than hydrogen. Helium is a smaller but heavier atom than hydrogen.



Hewitt
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