

Hodge Podge and Potential

W5D2

What did we cover?

- We learned about charge and got a conceptual feel for what it is.
- We identified charge with the fundamental building blocks of atoms.
- We studied charge transfer from a number of perspectives.
- We looked at polarization of insulating materials
- We learned about conductors and what actually moves.
- We learned how to make someone's hair stand on end.
- We learned about how to stick a balloon to a wall.
- We learned how to understand these effects.

- At least you should have learned these things.

Concept of Charge

An aluminum nail has an excess charge of $+3.2 \mu\text{C}$. How many electrons must be added to the nail to make it electrically neutral?

- A) 2.0×10^{13}
- B) 2.0×10^{19}
- C) 3.2×10^{16}
- D) 3.2×10^6
- E) 5.0×10^{-14}

$$e = 1.60217646 \times 10^{-19} \text{ coulombs}$$