

16.6: Thinking about the material

16.6.1: Reflect and research

1. Which molecule has the largest dipole moment? Why?
2. How does a laser printer exploit physical properties covered in this chapter?
3. How does a Van de Graff generator work?
4. On the 20th of May, 2019, SI base units were redefined. How does this affect Coulomb's constant?

16.6.2: To try at home

1. Rub your hands or feet along various household items to test their electron affinity. Which household items produce a static charge?
2. After charging your body, research the electron affinity of the surface you used to charge yourself. Knowing this, how many electrons were transferred while you charged yourself?

16.6.3: To try in the lab

1. Propose an experiment to measure the Coulomb's constant.
2. Propose an experiment to organize various materials based on their electron affinity.

This page titled [16.6: Thinking about the material](#) is shared under a [CC BY-SA 4.0](#) license and was authored, remixed, and/or curated by [Ryan D. Martin, Emma Neary, Joshua Rinaldo, and Olivia Woodman](#) via [source content](#) that was edited to the style and standards of the LibreTexts platform.

- [16.6: Thinking about the material](#) by Ryan D. Martin, Emma Neary, Joshua Rinaldo, and Olivia Woodman is licensed [CC BY-SA 4.0](#).
Original source: <https://github.com/OSTP/PhysicsArtofModelling/blob/master/README.md>.