

READING ASSIGNMENT FOR JANUARY 30

SECTION 21.1

21.1 - Electric Potential Energy and Electric Potential

- Electric Potential is, by far, the most abstract quantity we will study!
- In an electric field, a charge acquires potential energy, U_{elec} .
- The electric potential, V , on the other hand, is a quantity that tells us about how much energy is available from the electric field.
- The amount of potential energy depends on both the electric field and the amount of charge placed in that electric field. The potential, on the other hand, only depends on the electric field.
- The unit of electric potential is the volt (V) with $1 V = 1 J/C$.

THE QUIZ IS AT: www.masteringphysics.com/site/login.html