1. What is electricity?

**Electromagnetism** 

There are two types of electricity: static and dynamic.

Which component of a generator does get voltage?

2. Electric work <- Electric force <- Electric charge <- Electrification <- External energy

Simple overview of force, work, energy, and power

What is the process to get electric work?

What is electrostatic force?

What is electric field?

What is electric potential energy?

Electric potential and voltage

3. Gauss's Law, Electric flux, Corona phenomenon, Electric potential gradient

Gauss's Law, instead of Coulomb's Law, to calculate the Electric field

Sample problem, divergence theorem, and Maxwell's first equation

Corona phenomenon, Critical disruptive voltage

Electric potential gradient

4. Insulator vs. Dielectric