

Discharging Electrically Charged Objects

- If a charged object has all the excess electric charges removed, it is said to be _____ or _____
 - _____ are a example of discharge
- The simplest way to discharge an object is to connect it to the Earth itself by means of a conductor (such as a wire connected to a metal rod buried in the ground).
 - When an object is _____ it shares its charge with the entire earth



- When grounding is not practical (as in cars or airplanes), a method called _____ is used:
 - The surface of an object is shaped to maximize discharge
 - An object that is sharply curved to a point will allow electrons to repel one another so strongly that they are pushed off



Lightning

- lightning is an example of a very large _____
- sometimes a cloud will build a large _____ charge at its _____
- this creates a temporary _____ charge on the _____ (induction)
- when enough charge has been built up a _____ of charged particles forms
- the cloud _____ its excess electrons along the path to the ground creating a huge _____ (lightning)

