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**is the branch of electricity that deals with**

**charges at rest because moving charge gives rise**

**to electric current and electric current is the**

**source of magnetism the study of electricity and**

**magnetism begins with electrostatics an atom**

**consists of a nucleus made up of**

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**key concepts charged particles often negatively**

**charged electrons are the basis of electricity**

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**Apr 10 2022 web 3 electricity and magnetism are**

**essentially two aspects of the same thing because**

**a changing electric field creates a magnetic**

**field and a changing magnetic field creates an**

**electric field this is why physicists usually**

**refer to electromagnetism or electromagnetic**

forces together rather than separately  
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electricity and magnetism were long thought to be separate forces it was not until the 19th century that they were finally treated as interrelated phenomena in 1905 albert einstein s special theory of relativity established beyond a doubt that both are aspects of one common phenomenon  
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physics the study of electricity and magnetism  
britannica Apr 29 2021 web the study of electricity and magnetism although conceived of as distinct phenomena until the 19th century electricity and magnetism are now known to be components of the unified field of

**electromagnetism particles with electric charge interact by an electric force while charged particles in motion produce and respond to magnetic forces as well**

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together they form electromagnetism a moving electric charge generates a magnetic field a magnetic field induces electric charge movement producing an electric current

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