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electricity and magnetism was the main wildly successful theory at the time that einstein came onto the scene maxwell had shown how the two different forces could be unified into one mathematical theory

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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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a basic explanation of what electricity and magnetism are including details about how static electricity current electricity permanent magnets magnetic fields and electromagnets work

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magnetism is the class of physical attributes that occur through a magnetic field which allows objects to attract or repel each other because both electric currents and magnetic moments of elementary particles give rise to a magnetic field magnetism is one of two aspects of electromagnetism or temporary magnet

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introduction to electricity and magnetism electricity is basically the presence and motion of charged particles on the other hand magnetism refers to the force which the magnets exert when they attract or repel each other thus we see how different they are from each other after studying them in detail we can understand them better

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electricity and magnetism from statics to electromagnetic fields as described by maxwell s equations

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it s a push me pull you kind of relationship where a magnetic field is produced by the motion of electric charges and electricity is produced by changes in a magnetic field you can t have one without the other

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this freshman level course is the second semester of introductory physics the focus is on electricity and magnetism the subject is taught using the teal technology enabled active learning format which utilizes small group interaction and current technology

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