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| **North Carolina 4th FOSS Correlation** |
| *North Carolina Essential Standards* | *FOSS Kits* | *Books* |
| **FORCE AND MOTION** |
| 4.P.1 Explain how various forces affect the motion of an object. |
| 4.P.1.1 Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them. | FOSS 3rd EditionEnergy and ElectromagnetismInvestigation 3, 4 | DSR:Magnets; ElectromagnetismDSCR: Properties of Matter;Electricity and MagnetismFOSS:Magnetism and Electricity;Energy and Electromagnetism |
| 4.P.1.2 Explain how electrically charged objects push or pull on other electrically charged objects and produce motion. | FOSS 3rd EditionEnergy and ElectromagnetismInvestigation 1, 2, 4 | DSR: Magnets; Electrical Circuits;ElectromagnetismDSCR:Energy; Electricity and MagnetismFOSS:Matter and Energy;Magnetism and Electricity;Energy and Electromagnetism |
| **MATTER, PROPERTIES AND CHANGE** |
| 4.P.2 Understand the composition and properties of matter before and after they undergo a change or interaction. |
| 4.P.2.1 Compare the physical properties of samples of matter: (strength, hardness, flexibility, ability to conduct heat, ability to conduct electricity, ability to be attracted by magnets, reactions to water and fire). | FOSS 3rd EditionEnergy and ElectromagnetismInvestigation 1, 2, 3, 4 | DSR: Magnets; Soil Science;Sink or Float?; Electrical Circuits;Electromagnetism; Rocks and MineralsDSCR: Soils; Heat and Light Energy;Electricity and Magnetism;Minerals, Rocks and FossilsFOSS: Earth Materials; Matter and Energy;Magnetism and Electricity;Soils, Rocks, and Landforms;Energy and Electromagnetism |
| **Energy: Conservation and Transfer** |
| **4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.** |
| 4.P.3.1 Recognize the basic forms of energy (light, sound, heat, electrical, and magnetic) as the ability to cause motion or create change. | FOSS 3rd EditionEnergy and ElectromagnetismInvestigation 1-5 | DSR: Sound; Magnets; Color and Light; Electrical Circuits;ElectromagnetismDSCR: Energy; Sound Energy;Heat and Light; Electricity and MagnetismFOSS: Water Planet; Matter and Energy; Physics of Sound;Ideas and Inventions; Magnetism and Electricity; Energy and Electromagnetism |
| 4.P.3.2 Recognize that light travels in a straight line until it strikes an object or travels from one medium to another, and that light can be reflected, refracted, and absorbed. | FOSS 3rd EditionEnergy and ElectromagnetismInvestigation 5 | DSR: Color and LightDSCR: Energy; Heat and Light EnergyFOSS: Matter and Energy;Ideas and Inventions;Energy and Electromagnetism |