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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 Edition  Energy and Electromagnetism  Investigation 3, 4 | DSR:  Magnets; Electromagnetism  DSCR: Properties of Matter;  Electricity and Magnetism  FOSS:  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 Edition  Energy and Electromagnetism  Investigation 1, 2, 4 | DSR: Magnets; Electrical Circuits;  Electromagnetism  DSCR:  Energy; Electricity and Magnetism  FOSS:  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 Edition  Energy and Electromagnetism  Investigation 1, 2, 3, 4 | DSR: Magnets; Soil Science;  Sink or Float?; Electrical Circuits;  Electromagnetism; Rocks and Minerals  DSCR:  Soils; Heat and Light Energy;  Electricity and Magnetism;  Minerals, Rocks and Fossils  FOSS:  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 Edition  Energy and Electromagnetism  Investigation 1-5 | DSR: Sound; Magnets; Color and Light; Electrical Circuits;  Electromagnetism  DSCR: Energy; Sound Energy;  Heat and Light; Electricity and Magnetism  FOSS: 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 Edition  Energy and Electromagnetism  Investigation 5 | DSR: Color and Light  DSCR: Energy; Heat and Light Energy  FOSS: Matter and Energy;  Ideas and Inventions;  Energy and Electromagnetism |