**Graphical user interface

Description automatically generated with medium confidenceMagnetism and Electromagnetism** (Comb.)

RAG your understanding.

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|  | **Start of Topic** | **End of Topic** | **Revised** |
| **7.1 Magnetism and Electromagnetism** | | | |
| P.7.1.1.a - I can describe the attraction and repulsion between unlike and like poles of permanent magnets and explain the difference between permanent and induced magnets. |  |  |  |
| P.7.1.1.b - I know that magnetic attraction and repulsion are examples of non-contact forces and that magnetic forces are strongest at the poles of a magnet. |  |  |  |
| P.7.1.2.a - I can draw the magnetic field pattern of a bar magnet, showing how field strength and direction are indicated, and change from one point to another. |  |  |  |
| P.7.1.2.b - I can explain how the behaviour of a magnetic compass is related to evidence that the core of the Earth must be magnetic. |  |  |  |
| P.7.1.2.c - I can describe how to plot the magnetic field pattern of a magnet using a compass. |  |  |  |
| P.7.1.2.d - I know that Iron, Nickel and cobalt are magnetic metals. |  |  |  |
| **7.2 The Motor Effect** | | | |
| P.7.2.1.a - I can state examples of how the magnetic effect of a current can be demonstrated, and explain how a solenoid arrangement can increase the magnetic effect of the current. |  |  |  |
| P.7.2.1.b - I can draw the magnetic field pattern for a straight wire carrying a current and for a solenoid (showing the direction of the field). |  |  |  |
| ***P.7.2.2.a (HT) - I can state and use Fleming's left-hand rule and explain that the size of the induced force depends on the magnetic flux density, current in, and length of, the conductor in the magnetic field.*** |  |  |  |
| ***P.7.2.2.b (HT) - I can calculate the force on a conductor carrying a current at right angles to a magnetic field by applying, but not recalling, the equation:***  ***F = B I L*** |  |  |  |
| ***P.7.2.3.a (HT) - I can explain how rotation is caused in an electric moto.*** |  |  |  |

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| **Doddle Quizzes** | **Mark:** | **Out of:** |
| <https://www.doddlelearn.co.uk/app/teacher/launch-content/c8886331-ba2c-431c-ba3a-9ab754e607d0> |  | 25 |
| <https://www.doddlelearn.co.uk/app/teacher/launch-content/cd2fdbae-26d5-4832-b620-4d18ec2653a1> |  | 25 |
| PHYSICS ONLY <https://www.doddlelearn.co.uk/app/teacher/launch-content/5d34ff4e-8d9a-4341-b4e5-c8b2977e5fef> |  | 20 |
| PHYSICS ONLY <https://www.doddlelearn.co.uk/app/teacher/launch-content/d3394c71-f8fd-45ed-a7e2-0c1a675ef1ec5> |  | 20 |