KS2 Science KCV – Forces and magnets

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| Key Knowledge | Detail |
| compare how things move on different surfaces | Study push and pull actionsConsider friction and impact on movement |
| notice that some forces need contact between two objects, but magnetic forces can act at a distance | Understand that magnets can move metallic objects without direct contact |
| observe how magnets attract or repel each other and attract some materials and not others | Know that magnets have two poles which create attraction and repulsion.Know which materials are attracted to magnets. |
| Set up simple practical enquiries, comparative and fair tests | Investigate the movement of a object over different surfaces |

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| Vocabulary |
| **Push** | An action that moves an object away from the force |
| **Pull** | An action that moves an object towards the force |
| **Friction** | Amount of resistance between an object and a surface |
| **Surface** | Material an object is resting on |
| **Force** | Power exerted on an object |
| **Newtons** | Unit of force |
| **Magnet** | Magnetised metal |
| **North pole** | One end of a bar magnet |
| **South pole** | One end of a bar magnet |
| **Attract** | Where an object moves towards a magnet |
| **Repel** | Where an object moves away from a magnet |

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| Key concept questions |  |
| When is a force a push or a pull? |
| What is friction? |
| How does friction affect movement? |
| Which materials respond to a magnet? |
| How do the poles on two magnets interact? |

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