

Forces and Magnets: Marvellous Magnets

| | | |
|--|--|--|
| Aim: To observe how magnets attract or repel each other and attract some materials and not others by making, playing and evaluating a magnetic game. I can explain that magnets attract some materials. | Success Criteria: I can identify materials that are attracted to magnets. I can use the force of magnetic attraction to make a magnetic game. I can explain how a magnetic game works by attracting materials. | Resources: Lesson Pack Magnets Paper clips Plastic bowls or trays Straws or dowels String Card |
| | Key/New Words: Force, magnet, attract. | Preparation: Forces and Magnets Questions - 1 per child Forces and Magnets Answer Cards cut up and placed at the front of the classroom Magnetic Game Activity Sheet - 1 per child |

Prior Learning: Children will have learnt about magnetic attraction and repulsion in lessons 3, 4 and 5.

Learning Sequence

| | | |
|--|---|--|
| | Forces and Magnets: Children play the game described on the Lesson Presentation to match the Forces and Magnets Questions to the Forces and Magnets Answer Cards . | |
| | Use the Force: Children check that magnets attract materials through paper by trying the activity on the Lesson Presentation . Explain the magnetic game task using the Lesson Presentation . | |
| | Useful Magnets: Explain the following uses of magnets: to point north in a compass; to hold a fridge door closed; in a laptop lid so that the computer can tell if it is open or closed; to sort coins in a vending machine. | |
| | Magnetic Games: Discuss the magnetic game suggestions on the Lesson Presentation . | |
| | Design and Make Your Magnetic Game! Children design and explain their own game on the differentiated Magnetic Game Activity Sheet , then make their game. Look for children who can explain how magnets attract some materials and how they have used this force to create their games. <div> Children may need support when making their game. Use key words to explain how their game uses magnetic attraction. Explain how their game uses magnetic attraction. </div> | |
| | Play and Evaluate: Children share and play their games in pairs, then evaluate each other's games on the differentiated Magnetic Game Activity Sheet . | |

Taskit

- Writeit:** Why not make a book about magnets? Include information about magnetic materials, types of magnets and magnetic poles. You could even include pop ups!
- Watchit:** Watch this film called [Super powerful magnets](#) about 'Magnetman': Can you think of other uses for the magnetic grippers he wears?
- Answerit:** Try this [quiz](#) all about magnets to see how much you know!