

Individual Activity Lesson Plan

Date: Wednesday 29th July 2020

Activity Title: Marvellous Magnets!

Learning Intention:

- To investigate objects and materials by using all of their senses as appropriate.
- To find out about, and identify, some features of objects they observe.
- To extend their vocabulary, exploring the meaning of new words.

Links to EYFS:

Understanding the World:

- Looks closely at similarities, differences, patterns and change.

Equipment:

- Assorted strong magnets
- Variety of objects both metal and non-metal. Such as: empty can, paper plate, conker, leaf, soft toy, pencil, wooden block, paper clips, metal and plastic rulers, alarm clock, keys, metal, plastic and wooden spoons, greetings cards etc.
- Two pieces of card, each with a picture of a magnet, one with a large 'tick' and the other with a large 'cross'.

Activity Overview:

investigate objects and test if they are magnetic or non-magnetic.

Key vocabulary: Magnet, magnetic, non-magnetic, bar, horse-shoe, metal, metallic, non-metallic, attract, repel, force, set, same as, different from, similar

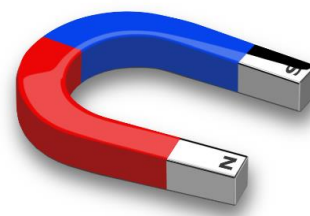
ACTIVITY IMPLEMENTATION (including key questions)

Introduction:

- Set up the activity without your child's knowledge. Place a selection of objects (listed above in a basket or box) and cover with a cloth/blanket.
- Unveil the basket/box and then reveal the magnet /magnets.

Main Activity:

- Invite your child to take each of the items out of the basket/box and place them on the table.
- Discuss the objects and materials on the table. Find out what your child already knows about magnets and their properties.
- Give your child the opportunity to explore the magnets and the objects. Encourage him/her to make predictions about which objects will be attracted by the magnets.
- Encourage your child to reach a conclusion about each object: 'Is it magnetic or not?'



- *Create two sets of objects on the two pieces of card - one 'magnetic', the other 'non-magnetic'.
- *Encourage your child to test each object and sort it according to the property of magnetic or non-magnetic.

-Key Questions to ask throughout the activity:

- * If an object is attracted to one magnet, is it attracted to every magnet?
- * What is the same about the objects that are attracted to the magnets?
- * What are the objects that are attracted to a magnet made of?
- * If the metal spoon is magnetic, are all spoons magnetic? If not, then why not?
- * Are all metal objects magnetic?
- * What happens if the ends of bar magnets are put near each other? Is it the same for both ends?

Extension Activities

- * Encourage your child to choose additional objects from the room and predict whether they are magnetic or

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non-magnetic, before testing to find out.

* Investigate whether magnetism goes through materials. Place paper clips on a paper plate and move magnets underneath. What happens? Does magnetism work through a metal tray, a plastic tray, a table or water? Drop a paper clip in a glass of water. Hold a magnet against the glass and try sliding the paper clip to the top.

* Encourage your child to consider which other magnets can be found in the room - magnetic shapes, construction blocks, story props, letters and numbers, fishing games and so on.

Additional ways to support your child:

Allow your child to explore freely with the magnet/magnets and create wonder by making statements: 'I wonder what would happen if two magnets came close together'.

Extension:

If you have more than one magnet, compare the strength of different magnets. How many magnetic discs or paper clips will each magnet hold?