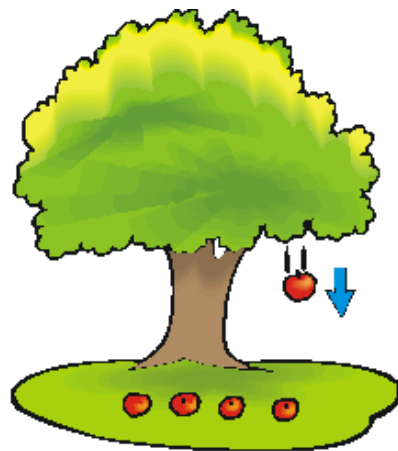


Science activities to support pupils at home and at school



In light of developing Science knowledge and skills, we would like to share with you some work activities that can be used at home as a fun way of developing children's understanding and abilities in the three main areas of Science- Scientific enquiries (investigative Science), Biology (Understanding of the World around us); Chemistry (Materials-their properties and purpose of use) and Physics (forces- electricity and magnetism as in a natural world and as affecting our daily life). These activities will help to keep the link between school and home constant and to further explore Science in practical home situations. We hope that you will enjoy engaging and interacting with your child.



Science Lead: Ani Angelova

Email: Ani.Angelova@nas.org.uk

Activity 1

Herbs Sensory exploration

Skill to be learnt: This sensory - investigative exploration task is a great way of recognizing different herbs and can be a nice day out investigating how do herbs smell/look/taste. What is their name? Why do people grow herbs and where are they used?

What you will need: Different herbs and pictures of them.

How to do it: First, walk to the herb market with your child or have ready to display some herbs that you have at home. It can be done as part of your routine shopping day. Show to your child the picture image of particular herb and ask her/him to find it and explore. Use all senses.

Vision- How does it look? What color it is? **Smell-** How does it smell? Do you like the smell? **Touch-** How does it feel? What is the texture? **Taste-** How does it taste?

Hearing- Can you make sound with the different parts of the herb?

Extended task: You can cook lovely dish using the herbs you bought together.



Activity 2

The Magnet Mystery

Are the magnets different in shape and size?"



Horseshoe magnet



Bar magnet

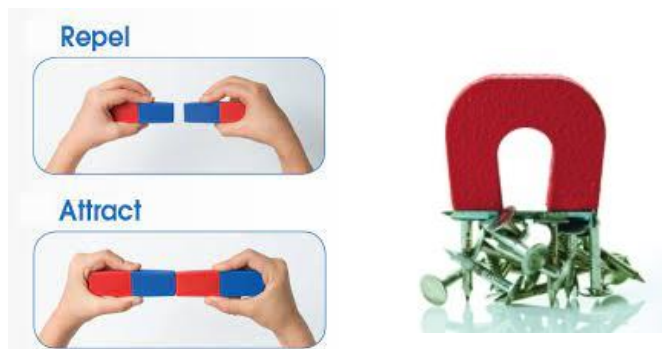


Disk/Circle magnet

Skill to be learnt: When children use magnets to investigate they learn to observe, label and sort. Luckily, exploring the magnetic force on objects is also enjoyable and creative.

What you will need: Magnets or magnetic shapes, big paperclips, house found objects for exploration including fabrics, different liquids such as milk, juice, water.

How to do it: Explore the shape and the size of the magnets. Ask your child to put them together, observe and talk about what is happening and why? Use scientific language to describe the push or pull between two magnets as **attraction** or **repulsion**. All magnets have two poles called South and North. Attraction happens only between opposite poles.



Now, explore the magnetic force using different objects and liquids. Don't forget to place the big/colorful paperclip inside the cup of liquid; inside the sock or the clear plastic bag

Encourage your child to get out the paperclip using only a magnet. Do you think the magnet will work through.....?

Magnets attract some objects.



L.O - I can predict and test against my predictions.



water



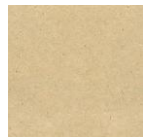
metal foil



foam



plastic bag



cardboard paper



sock

Extension task: Use different magnetic shapes to build structures. Try to be a journalist and research information about magnets and their use in today's life.



Activity 3





Material hunt game

I can spot

Skill to be learnt: This offers opportunities to recognize and name things seen in the nature.

What you will need: Walk to the park

How to play: Walk with your child to the park and ask them to look around. Spot things on the tree, in the garden area, on the beach. If you can and is safe touch, name and describe.

Object	Where we can see it?
twig 	
cone 	
leave 	
tree bark 	

Extension task: Collect nature materials and make collage at home.

Activity 4

Let's Recycle game

Skill to be learnt: Not all materials are to be recycled. Engaging in the game will be fun way to teach about sorting materials into materials groups such as plastic, wood, glass, paper, rubber, food and at the same time develop children's knowledge of how and what to recycle. In such way we also help the nature and our community.



Materials topic words



What you will need: Materials that you do recycle normally at home. Sorting boxes/ bins; (you can draw them together with your child) labeled clearly.

How to do it: We start with identifying the recycle symbol and explaining to your child that many things can be reused again. We call this recycling and we can recycle different materials.

Draw or prepare recycling area and together with your child clearly label and sort materials in your household into material groups such as: wood, glass, paper, metal, plastic. Take your time to explore in the house and find and place in each group similar objects/ materials.



Extension task: Depends on the level of your child you can sort materials into found in the nature or man-made. Together you can design a poster with words describing material properties such as hard, soft, flexible, heavy, shiny and find and match the object to the correct property.