

Newlathes Nursery and Infant School Medium Term Planning

Year Group: 1

Term: Aut 1

Subject: Science

Learning/ Skill: Materials

National Curriculum Links/Learning:

Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials. Describe the physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple properties. Observe changes in leaves as part of Autumn. Observe changes in seasons and how day length varies. Observe closely using simple equipment. Identify and classify. Use observations and ideas to suggest answers to questions.

Prior Learning:

Feely bag work from EYFS building vocabulary for textures.

Activities/Teaching

Sorting objects into materials groups e.g wood, plastic, metal, glass, paper stone, fabric brick. Sorting by properties – hard, soft, transparent, opaque, dull, shiny, flexible rigid stretchy. Shoelace investigation – which material is the best – setting criteria and testing, recording in a simple format. Selected materials for windows for planes (link to D and T) Fair testing of paper planes made in D and T Look at why you use specific materials for specific purpose related to properties. Collect leaves and use leaf identification chart to name, look through magnifying glasses. Watch clips for evergreen and deciduous trees. Sort leaves in a variety of ways- size, shape of edge, simple leaf/leaflets. Talk about daylength for Autumn days.

Planning area ideas

Sorting materials by what they are made from.
Sorting materials rigid/flexible, transparent/opaque
Magnets and different materials including different metals

Resources

Variety of objects made from different materials
Leaf chart
Different materials for shoelaces and card shoes for lacing.

Subject Specific Vocabulary

Hard- cannot be easily broken
Stiff- can't be bent
Rigid- cannot be forced out of shape
Soft- can easily be squashed rolled or folded
Transparent- allows light through it and you can see through it.
Opaque- cannot see through it , doesn't let through.
Dull- light doesn't bounce off it.
Shiny- light bounces off it making it look bright.
Flexible- can be bent without breaking.
Stretchy- able to be pulled or stretched outwards.
Object- a thing that can be seen or touched.
Materials- what a thing is or can be made from.
Volume – the amount of space an object occupies otr takes up.
Properties- features that can be measured.
Measure – find out the size of an object.
Group- put objects together with similar properties.
Results- Information obtained or got by experiment or scientific method.
Deciduous trees-lose their leaves in Autumn every year. The leaves are usually flat with veins running through them.
Evergreen – have green leaves all year round. The leaves are usually thick, waxy and shaped like needles.

Any subject specific requirements?

Future learning: To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.