Newport Infant School and Nursery Science EYFS Curriculum

What children at Newport Infant and Nursery School will know and do by the end of Acorn Class (2 – 3 years):

- To explore different materials and begin to know that they can explore with their senses and various body parts
- To know that different phenomena occur outside and can explore this when it rains, snows is sunny and windy
- To explore different natural materials both inside and out
- To begin to know care must be given to living things
- To identify and name some parts of my body

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
I can use taste fruits and vegetables I can explore the textures of fruit and vegetable I can explore materials when I cook I can identify by pointing and name some simple parts of my body	I can explore natural autumn item e.g. leaves, twigs I can explore what wet and dry twigs and stones I can explore foam paints when making fireworks	I can observe and respond to changes in natural environment when looking at winter I can explore cold and warm materials Explore cooked and uncooked food using senses e.g. cooked and uncooked potato, Chinese food I can taste Chinese food	I can observe and explore different minibeasts. I can hold minibeasts with care with an adults support I can explore the texture of honey – runny, sticky, clear, cloudy, hard I can look at and explore spring natural materials such as flowers and blossom	I can identify and label different animals such as animals that live on the farm, in the sea and in the wild. I can explore different textures such as feathers, fur, hair, prickles	Explore sand, pebbles, and shells Explore patterns that tyres make when rolled in sand and paint

Throughout the year the children will explore natural phenomena and respond and talk about weather. The children will puddle jump, look for rainbows, notice the sun and shadows. The children will take part in weekly forest school where the children will learn to handle living things with care and continue to explore natural materials. The children will take part in cooking activities regularly through the year.

Nursey – Oak Class (3-4years)

What children at Newport Infant and Nursery School will know by the end of Nursery:

- To know that we have seasons and some of the things that happen in the season.
- To know that animals and other living this live in different places such as in the farm, in the sea and in the wild
- To know, recognise and explore materials changing through activities such as cooking, that materials can be the same and different and the vocabulary to talk about the materials they explore with their senses.
- To know how to care for and look after plants, begin to understand the need to respect living things and key features of a plant and animal lifecycle.
- To know and identify parts of their body

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
I can notice and talk about changes that happen when we bake and cook I know I have senses and can use my senses to explore the smell, tastes, touch and look of herbs, vegetables and fruits I can name parts of my body and face	I can notice and talk about changes that happen when we bake a cake I know how torches work and what happens when I explore light. I can explore light and shadows. I know that Autumn is a season and can talk about things that happen at autumn	I can use my senses to explore fruits from other countries. I can recognise and identify differences and similarities in fruits from around the world I know how materials changes when making fruit smoothies and banana bread, exploring what happens when vegetables are cooked. I can find out how blenders work and what they do (with supervision of an	I know and can identify some of the features of the lifecycle of a butterfly. I can respect and look after minibeasts I know the features of some minibeast and what they do and where they live. I know that spring is a season and talk about things that happen at spring	I can know how to plant and care for growing plants I know we have to look after the environment – keeping it clean for animals I can name farm, wild and sea animals I know that animals live in different places such as farm, sea and in the wild	I can explore and look at different forces they I can feel I can plant and care for strawberries, looking at features of the life cycle. I know how different vehicles work – looking carefully at bicycles and hot air balloon go up I can explore and know how cogs work I know that summer is a season and can talk about some of the things that

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		adult) I know that winter is a season and can talk about some of the things that happen at winter		I can plant and care for potatoes. I notice changes as potatoes grow.	happens at summer

Throughout the year the children will explore seasons, changes and materials through incidental learning moments such as discussions when outside. The children will take part in weekly forest school where the children will learn to care for the environment and living things, plant and observe changes. The children will take part in cooking activities regularly through the year.

Reception

What the children at Newport Infant and Nursery School will know by the end of Reception:

- To know that living things (animals and plants) grow and change over time
- To know that seasons change and each season differs
- To know that animals live in a variety of places and have different seasonal behaviour and sleep cycles
- To know materials change because of heat, cold and other elements and some materials have properties that can be used for a purpose.
- To know humans can have impact upon our natural environment

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
I know and can identify ways I have changed as I have grown from baby to young child I can explore the materials I find in the natural world.	I know that Autumn brings changes to the natural environment (weather, plants and light) I know that some animals begin to gather food and make habitats ready to hibernate over winter *(drawing)*	I know that ice, chocolate, and cornflour can change state. I know that Winter brings changes to the natural environment and know how these changes differ to Autumn. I know that people can impact the natural environment and that recycling helps keep animals safe and our environment clean. (focus on land)	I know that Spring brings changes to the natural world and can compare these to the changes that occur in Winter and Autumn. I can make observations of spring flowers, noticing how they change as they grow, just like people. *(Observational drawing)* I can label some features of a flower I know that some animals are nocturnal, and some animals are diurnal *(drawing)* I know and can identify the animals that live in the jungle and those that live in the safari. I can compare jungle and savannah environments to each other and to where I live.	I know that some animals live in shells and what shells are for. *(drawing)* I know that humans can take action to help keep our natural environment clean and safe, including recycling to help our oceans. I understand that some materials float and some sink.	I know that Summer brings changes to the natural world and can compare all four seasons, talking about the differences between all four. I know that plants change over time and understand te lifecycle of a bean. I understand that butterflies change over time (like people and plants do) and understand the lifecycle of the minibeast. *(drawing)* I know and make observations of farm animals. *(drawing)*

Assessment at the end of the year is against the Early Learning Goals. Science can be found in the Understanding the World Statements which are:

The Natural World

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

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- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter