CURRICULUM STATEMENT for SCIENCE

Intent: what we are trying to achieve with our curriculum

Children will develop the scientific knowledge and skills detailed in the statutory requirements of the programmes of study in the National Curriculum.

Children will experience, observe and investigate scientific phenomena. Their conceptual understanding will be developed through practical experiences and spoken language. Children will be encouraged to ask questions and share their ideas, findings and conclusions.

Children will engage in different types of scientific enquiry including, observing changes over a period of time, noticing patterns, grouping and classifying, carrying out simple comparative tests and finding things out using secondary sources of information.

Children will be introduced to scientific vocabulary and taught how to use simple scientific language to talk about their work.

Children will write about their work and be taught how to record their learning using drawings, charts, tables and diagrams.

What we want children to know	What we want children to understand	What we want children to be able to do
The weather changes between seasons	How the seasons affect plant and animal life	Be curious Ask questions Suggest answers to questions Talk about their ideas Perform simple tests Observe Compare Classify Gather and record data Use simple measurements and equipment
The basic parts of the human body and which part of the body is associated with each sense		
The names of a range of everyday materials *The shape of some solid shapes can be changed by squashing, bending, twisting and stretching.*	The physical properties of a range or everyday materials *The suitability of everyday materials for particular uses*	
	The differences between things that are living, dead or never alive	
The names of common animals - carnivores, herbivores and omnivores *That animals have off spring which grow into adults*	*The basic needs of animals for survival* *The importance for humans of exercise, diet and hygiene*	
The names of a variety of plants *That plants need water, light and a suitable temperature to grow and stay healthy*	The basic structure of a variety of common plants *How seeds and bulbs grow into mature plants*	

CURRICULUM STATEMENT for SCIENCE

Intent: what we are trying to achieve with our curriculum

What we want children to know	What we want children to understand	What we want children to be able to do
The names of a variety of plants and animals in different habitats	*That most living things live in habitats to which they are suited* *How different habitats provide for the basic needs of plants and animals* *The idea of a simple food chain*	

Implementation: how we deliver our curriculum

The scientific knowledge and skills detailed in the statutory requirements of the National Curriculum are taught in half termly/termly topics. Teachers use the Science Scheme of Work, written by the Science Subject Leader, to deliver a sequence of lessons for each topic.

'Knowledge Organisers' are used to give a clear view of exactly what we expect children to learn and remember in the long term. They are used in lessons to 'set the scene' at the beginning of a topic and teach facts and target vocabulary throughout the topic. They are also shared with parents and carers to enable them to support their child's learning at home.

Science lessons take place during afternoon sessions and consist of both whole class and groups activities. Whole class activities are considered to be more appropriate when introducing topics or teaching children scientific knowledge. Wherever possible, scientific enquiry is carried out in small groups to maximise opportunities for all children to participate.

Each classroom has an 'Investigation Station' to specifically support and develop children's enquiry skills. An enquiry question is posed and teachers resource this area to enable children to follow their own lines of enquiry and learn independently.

Opportunities for children to learn outdoors are also planned. All children utilise the school grounds, school allotment and outdoor classroom. Educational visits also provide children with additional learning experiences beyond the school setting.

Additional activities including Science Week, Science Club, the Peterlee Partnership Science Day and visiting 'scientists' also enrich our science curriculum.