Science

'Bringing science to life for our young scientists of today'

At NET, our Science curriculum aims to ensure that all pupils:

- Will be taught the knowledge and skills to provide a secure foundation in 'Understanding the World' through the disciplines of biology, chemistry and physics.
- Science is fundamental to understanding our lives and our futures and as such, it is a core subject.
- As scientists, pupils will develop their natural curiosity, questioning and evaluation of the world they live in.
- Pupils are progressively taught skills to develop scientific enquiry to enable them to plan, predict, conduct and conclude investigations independently.

At the end of KS2, pupils will be able to:

- Ask and answer questions about scientific enquiry.
- Make predictions based on their prior scientific learning.
- Carry out investigations, observing over time; pattern seeking; identifying, researching, classifying and grouping and conducting comparative and fair testing.
- Interpret evidence and explain findings using their science knowledge and technical vocabulary

We aim to teach pupils conceptually in order to develop a deeper level of understanding throughout their time at school. Teachers will impart essential knowledge that has been planned progressively, through the NET curriculum, beginning in EYFS and across key stage one and two.

Long Term Plan	Autumn	Spring	Summer
EYFS	Through **Understanding the World**, children will experience the following areas throughout the year: **Changes in the natural world** https://www.bbc.co.uk/bitesize/topics/zhwq6rd/articles/zxvyg2p **Natural Materials** https://www.bbc.co.uk/bitesize/topics/z68wmbk/articles/zhbyrmn **Senses** https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/zsbntrd **Plants** https://www.bbc.co.uk/bitesize/topics/z68wmbk/articles/zyr87v4 **Forces and magnets** https://www.bbc.co.uk/bitesize/topics/z8bqxg8/articles/zj2fb7h **Animals** https://www.bbc.co.uk/bitesize/topics/z68wmbk/articles/znr346f **Differences between materials** https://www.bbc.co.uk/bitesize/topics/z68wmbk/articles/z8x7tcw		
Year 1	**Seasonal Change (autumn)** **Physics** https://www.bbc.co.uk/bitesize/topics/zkvv4wx/articles/z3kbydm **Everyday materials** **Physics** https://www.bbc.co.uk/bitesize/topics/zrssgk7/articles/zvpysk7	**Seasonal Change (winter and spring)** **Physics** https://www.bbc.co.uk/bitesize/topics/zkvv4wx/articles/z3kbydm **Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/z3cyn9q	**Plants** **Biology** https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/zjnmqfr **Seasonal Change (summer)** **Physics** https://www.bbc.co.uk/bitesize/topics/zkvv4wx/articles/z3kbydm
Year 2	**Everyday materials** **Physics** https://www.bbc.co.uk/bitesize/topics/zrssgk7/articles/z6jm7yc	**Living Things and their habitats** **Biology** https://www.bbc.co.uk/bitesize/topics/zsym3qt **Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/z9j4g7h	**Plants** **Biology** https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/zkp2jsg
Year 3	**Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/articles/zppvv4j **Rocks** **Physics / Chemistry** https://www.bbc.co.uk/bitesize/topics/z9bbkqt	**Forces and magnets** **Physics** https://www.bbc.co.uk/bitesize/articles/zhj9r2p	**Light** **Physics** https://www.bbc.co.uk/bitesize/topics/zmnqfdm/articles/z9wm7yc **Plants** **Biology** https://www.bbc.co.uk/bitesize/topics/zqhwnk7/articles/z2d4g7h#zcyxrmn

Year 4	**Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/articles/z8bntrd **Electricity** **Physics** https://www.bbc.co.uk/bitesize/topics/z8nqfdm	**States of Matter** **Chemistry** https://www.bbc.co.uk/bitesize/topics/zdpjs82	**Living things and their habitats** **Biology** https://www.bbc.co.uk/bitesize/topics/znd3jfr **Sound** **Physics** https://www.bbc.co.uk/bitesize/topics/zrxktcw
Year 5	**Forces** **Physics** https://www.bbc.co.uk/bitesize/topics/zjrp46f **Earth and space** **Physics** https://www.bbc.co.uk/bitesize/topics/z8vxb7h	**Properties and changes of materials** **Chemistry** https://www.bbc.co.uk/bitesize/topics/zq4skhv	**Living things and habitats** **Biology** https://www.bbc.co.uk/bitesize/topics/zy24xg8 **Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/topics/zj4skhv
Year 6	**Electricity** **Physics** https://www.bbc.co.uk/bitesize/topics/z88vwsg **Living things and their habitats** **Biology** https://www.bbc.co.uk/teach/class-clips-video/articles/zhnjf4j	**Light** **Physics** https://www.bbc.co.uk/bitesize/topics/zxm96rd	**Evolution and inheritance** **Biology** https://www.bbc.co.uk/bitesize/topics/zvhhvcw **Animals including Humans** **Biology** https://www.bbc.co.uk/bitesize/topics/z94skhv