

WELCOME TO NES
CURRICULUM TALKS

SCIENCE CURRICULUM
7.11.18

ENQUIRY-BASED SCIENCE

Children have ownership of their learning

- **Engaging Big question/idea** - Assess prior knowledge
- Explore – enquire/question/investigate
- Explain – analyse and record
- Elaborate and develop – **APPLY** & Communicate understanding
- Evaluate at all stages

A constructivist approach that enhances critical thinking, centred around questions, is child centred and applicable to real life.

Year 4 Teeth

What if we stopped brushing our teeth?

mind map and sorting true or false facts

Provide information

- research

types of teeth in
humans (extend to
non-humans)

Posters presentation,
complete map of their
Own teeth and label
mouth map with missing
teeth, filling, chips.

Extend

- anatomy of a tooth.
 - How much
money does the tooth
fairy earn? Survey. How
can we calculate this?
Maths investigation.

Digestion

WHERE DOES MY FOOD GO?

Use question bears to generate lots of scientific questions – allocate names
Matching ailments with definitions

Teacher provides basic information
- chn research parts of the digestive system - label diagram and discover what happens where

Chn own and share findings to complete class display.

Science Museum 'It takes guts' workshop.

ALTERNATIVE WAYS TO RECORD/ASSESS

- Scientific write-up
- Drama
- News reports
- Video recording
- Voice recorders
- Drawing/cartoon strips
- Photos of investigations
- Scrap book/Floor book
- Poetry
- Comprehensions

SUBJECTS WE COVER

Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Plants	All living things and their habitats	Plants	Living things and their habitats	Living things and their habitats	Living things and their habitats
Animals including humans	Plants	Animals, including humans	Animals, including humans	Animals, including humans	Animals, including humans
Everyday Materials	Animals, including humans	Rocks	States of matter	Properties and changes of materials	Evolution and inheritance
Seasonal Changes	Uses of everyday materials	Light	Sound	Earth and Space	Light
		Forces and magnets	Electricity	Forces	Electricity

IMMERSION

- Trips
- Visitors
- Outside learning
- Science Week
- Science workshop
- BBC Terrific Scientific - Investigations
 - child-friendly nationwide scientific investigations.
 - The data gathered is sent to the universities and feeds into real academic studies.

AN EFFECTIVE COHERENT NES CURRICULUM

- Underpinned by NES Learning Values and vision
- Enquiry based, contextualised & purposeful
- Driven by depth rather than coverage
- Highly motivating
- Develops SMSC , British Values understanding of Rights
- Tackles inhibiting factors

Allows every child to flourish

A COHERENT CURRICULUM FIT FOR PURPOSE FOR NES

1. Our curriculum is literacy rich, broad, balanced and enquiring.
2. It will provide children with opportunities to be at the very centre of their learning, able to read and write in a range of contexts and deploy cross discipline skills to make connections with their learning.