The Carlton & Faceby and Bilsdale CE Federation
Science on a page

Our Curriculum Aims

- Understand and welcome diversity
- Have a love of learning with a thirst for knowledge
- Be fluent, enthusiastic readers
- Have competent (and confident) maths skills
- Be ambitious, inspired, articulate and curious
- Have opportunities to be explorers
- Be ready for the next step in their education, and later life

Science Subject Non-Negotiables

- Long date and LO/title (can be printed onto slip/sticker)
- Knowledge retrieval at the start of the lesson (last lesson/topic/year)
- Opportunities for children to ask questions
- Opportunities for children to investigate, observe and learn through first hand experiences
- Sharing and marking of scientific vocabulary for that lesson

Assessment in Science

- Formative assessment through verbal feedback in the session
- Marking in line with feedback policy
- Peer assessment
- Assessment against objectives for the lesson/unit
- End of unit assessment e.g. Cornerstones express assessment
- Summative assessment at the end of a unit on Insight, judged against curriculum end points

SEND in Science

Note: As Science can be practical/enquiry based, learners with SEN often shine in science activities and with structured support can access the full curriculum

- Individual needs catered for as per SEND pupil plans
- Use of visual cues to support written work including spelling for specific scientific vocabulary for that lesson
- Dual coding of resources, as appropriate
- Adaptive teaching to scaffold/challenge
- Alternative recording options (laptop, scribe etc.)
- Collaborative group/peer work

Science and EYFS

- Understanding the World – people, places and communities, past and present, the natural world
- Personal, Social and Emotional Development – kindness, fairness, resilience, teamwork
- Expressive Arts and Design – exploring science through music, art, dance and role play
- Literacy – sharing special science
- Science in the areas open for investigation and exploration (child led) in the classroom accessible to all

Federation Fab 15

- Visit a city
- Attend a school club (Wisdom of the Woods)
- Go to the beach
- Visit a museum
- Grow a plant

Resources

- At Carlton, most science resources are in the front small store (on the right of the outdoor classroom) e.g. torso mannequin for human digestion, force meters, electricity components (note batteries are in the tall cupboard office area)
- EYFS has additional science equipment e.g. magnifying lens, tweezers
- At Bilsdale, most resources are stored in the classroom

The Carlton & Faceby and Bilsdale CE Federation
Science on a page

British Values

- Democracy - children work in groups for investigations and discuss and decide together the question that they are going to investigate, methods for collecting data and the roles they will have
- Individual liberty - are encouraged to make their own choices when planning an investigation and recognise that others may have different points of view
- Mutual respect – investigating during science lessons, children work as a team, supporting each other and sharing ideas and opinions. different from their own
- Tolerance of different faiths and beliefs – children learn about a range of scientists from different backgrounds and discoveries which have come from other cultures and how religious beliefs often compete with scientific understanding.

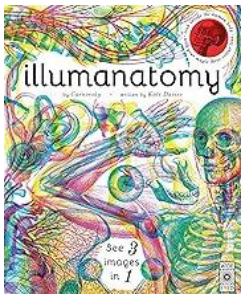


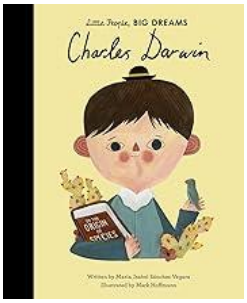
Learning Beyond the Classroom

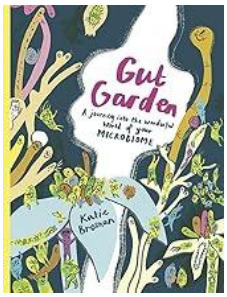
- Wisdom of the Woods sessions for EYFS-KS1
- Visits to museums e.g. Butterfly World, Life Centre in Newcastle
- Beach trip
- STEM Days for Y5/6
- British Science Week

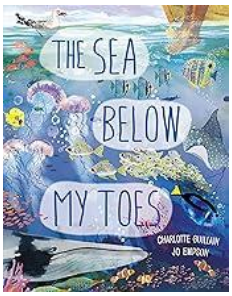
Reading in Science

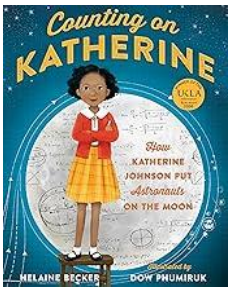
- Use of engaging and relevant books support in class teaching











Christian Vision

At Carlton & Faceby and Bilsdale Schools we are KIND:

Kind and accepting
Independent learners
Never giving up
Determined to be our personal best

Our high-quality delivery science helps to prepare children for life in modern Britain. It promotes understanding of the world around us, to be curious and determined to find solutions to further benefit the world.

Cultural Capital in Science

In Science, children will learn about areas of significant scientific interest e.g.

- Flora, fauna, geology
- How the body works
- Famous scientists such as Albert Einstein, Marie Curie, Stephen Hawking and Charles Darwin