

## Science

### Intent

At Clara Grant we are passionate about science, believing that science helps develop a set of specific skills that support children to make informed decisions that help them both fulfil their own potential.

We understand that our children are naturally curious and we encourage this inquisitive nature by helping them to frame questions within topics so they can test and evaluate ideas. Pupils are given the opportunities through topics to progressively deepen their knowledge of scientific concepts.

We believe science should excite children's interests, build on their prior knowledge and build their confidence in working out problems and asking further questions. At Clara Grant we aim to encourage positive attitudes and enable children to explain what has been learnt and how.

### Implementation

Science is planned and taught using a progressive approach that enables the achievement of deeper understanding. We follow the units in the National Curriculum Programme of Study for Science across the school. Teachers use Hamilton Trust science planning and resources to underpin their provision.

Teachers use precise questioning in class to develop scientific knowledge and skills, and assess children regularly to identify those pupils with gaps in their learning, so that all pupils keep up. Curiosity is celebrated within the classroom. Children's knowledge and understanding increases, and they become increasingly confident in their growing ability to collate, interpret results and come to conclusions based on real evidence.

At Clara Grant children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover answers.

### Impact

Children are engaged in a high-quality science education that provides them with firm foundations for understanding the world around them. We use a variety of strategies to evaluate the knowledge, skills and understanding that our children gain as they progress across the school:

- CPD to ensure that teacher pedagogy and assessment is secure.
- regular feedback marking and pupil voice feedback.
- subject monitoring, including book looks.
- regular low stakes knowledge assessments, including end-of-unit Rising Stars tests

### Enrichment

Our engagement with the local environment ensures that pupils learn about the world around them through a variety of first hand experiences. Through various workshops, trips and interactions with experts, pupils have the understanding that science has changed our lives and that it is vital to the world's future prosperity. Science enrichment activities at Clara Grant include:

- Professor Bubble (visiting scientist)
- Visits to the *Science Museum* and *Wonderlab*
- Visits to the *Natural History Museum* and the *Investigate Centre* workshops
- Visits to *Tower Hamlets Cemetery Soanes Centre*, (including habitat exploration in the ponds, meadows and woodland, discovering mini-beasts and plant and animal species identification)