The Redeemer CEP 'Science' Policy

Intent

Our aim for Science at The Redeemer, is to enthuse our pupil's interest and enjoyment in Science and to develop their appreciation of its contribution to everyday life. We want to build on pupil's curiosity and general sense of enquiry, enabling them to ask questions and make suggestions through investigations and practical activities. We would like to invest in the future of Science by creating ambassadors for the subject at Primary level.

Implementation

At The Redeemer, teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all pupils are capable of achieving high standards in science. Our whole school approach to the teaching and learning of science involves the following;

- Science will be taught in planned and arranged topic blocks by the class teacher, to have a project-based approach. This is a strategy to enable the achievement of a greater depth of knowledge.
- Our planning, will involve problem solving opportunities that allow children to apply their knowledge, and find out answers for themselves. Children are encouraged to ask their own questions and given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Planning involves teachers creating engaging lessons, often involving high-quality resources to aid understanding of conceptual knowledge. Teachers use precise questioning in class to test conceptual knowledge and skills, and assess pupils regularly to identify those children with gaps in learning, so that all pupils keep up.
- To build upon the knowledge and skill development of the previous years. As the children's knowledge and understanding increases, they will become more proficient in selecting, using scientific equipment, collating and interpreting results, leading to an increasing confidence in their growing ability to come to conclusions based on real evidence.
- Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.
- Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts.
- Children are offered a wide range of extra-curricular activities, visits, trips and visitors to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class. (Dependent on the change in our current circumstances – Covid 19)
- Regular events, such as Science Week or project days, allow all pupils to come off-timetable, to provide broader provision and the acquisition and application of knowledge and skills.

Impact

Beginning at Foundation Stage, children are introduced to scientific skills that they can build on and are encouraged to recognise, as they progress throughout each Key Stage. They are assessed by teachers formative methods based on pupils knowledge and understanding of scientific skills and subject knowledge of each Science topic taught.