

Science Policy

At Dove Green we are creating a world class school that promotes a happy, caring, inclusive and environmentally friendly community; where children experience stimulating learning, fully reflecting the culture and customs of the UAE:

- Through respect
- Through the curriculum
- Through community
- Through communication and relationships
- Through personalised support and development
- Through self-analysis and evaluation

Aims (combined with objectives box)

The Dove Green Private School policy for science aims to ensure that all students:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry, physics and scientific enquiry.
- develop understanding of the nature, processes and methods of science through different types of science enquiries and investigations that help students to answer scientific questions about the world around them.
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.
- develop and enhance their love of science and scientific enquiry to become lifelong learners.

Curriculum

The English national curriculum for science breaks down the teaching of science into specific objectives for each year group and each discipline of chemistry, biology and physics. At Dove Green, we promote scientific enquiry through innovative investigations and engaging experiments. Our Curriculum at Dove Green is underpinned by our 16 habits of mind, these learning skills aim to ensure our children become strategic reasoners and insightful, persevering, creative learners. Additionally, critical thinking processes are reinforced using Edward De Bono's 'Six Thinking Hats' – used throughout our school daily as a tool for group discussion and individual thinking.

Roles and Responsibilities

Students are expected to engage fully in lessons, both formal and investigative, and build on prior knowledge and learning.

Parents are expected to engage with their child's learning through discussion, allowing and facilitating children's desires for additional learning outside of school.

Teachers plan engaging lessons, using specific national curriculum objectives, that inspire students to develop a lifelong love of science and scientific enquiry.

Leaders regularly monitor and assess teachers practice and children's progress to ensure the highest standards are maintained across the school.

Inclusion

The individual needs of all children are considered carefully when planning and teaching Science at Dove Green.

For pupils who may need extra provision, the scheme of work will be adapted where necessary to enable all pupils to progress and demonstrate achievement.

All activities will be planned to encourage full and active participation by all pupils irrespective of ability. More able and G and T children are extended through their breadth and depth of study and independent learning.

We want every child to reach their full potential. Where necessary, teachers identify which children are not making expected progress and take steps to improve their progress and attainment in Science, liaising with the inclusion team if necessary.

Parental Engagement

Parents can help their children with their science learning by discussing their classroom lessons with them and extend it at home when the children show a desire to learn more. This could be through research, watching of videos or documentaries or practical experiments.

Planning and Time allocation

Science across the school has a different allocation of time based on the age of the children. In Key Stage 2, students will receive 2 hours of specific science lessons each week whilst in Key Stage 1 students receive 1.5 hours of specific science lessons each week. Although in the Foundation Stage there are no standalone science lessons, scientific enquiry and understanding of the world around them is incorporated throughout daily lessons and activities.

Resources

Each topic has a range of available resources, stored centrally in the newly equipped science laboratory. Teachers can access all materials and resources to enhance lessons and bring each topic to life. There are many resources that children can handle and explore themselves, allowing children to fully immerse themselves in each topic.

Assessment

In Science, children are constantly assessed through formative assessment in class and summative assessment through end of topic tests. Every lesson has a learning objective (WALT) which is shared with the children and must should could statements which allow children to always push themselves to achieve higher. Work completed in science books is marked according to the school marking policy.

GLs

Classroom Monitor

Rising Stars/Abacus half termly tests