

"Science is a perception of the world around us" – Subrahmanyan Chandrasekhar

The intent of our curriculum is to:

- Plan well sequenced lessons and adapt the curriculum to meet the needs of all pupils so that our curriculum is **inclusive** of all pupils and **accessible** to all pupils.
- Develop pupils' disciplinary **skills** and substantive **knowledge**
- Provide **hands-on** experience through practical work
- Create an **ambitious** curriculum so that **all students** are **challenged**
- Offer a varied curriculum with a wide **breadth of study**
- Develop students' **literacy** and **numeracy**
- Provide opportunities for building **independence** as well as **teamwork** through **collaboration**
- Provide **enrichment** opportunities for pupils to provide new experiences and deepen their understanding of the world around them
- **Build** on students' prior learning, revisiting core knowledge regularly
- **Link** to other subject areas to build a bigger understanding of the world
- Encourage student **self-reflection** in their learning journey
- Foster a **love of learning** science and an enjoyment of science
- Teach **beyond examinations** and allow pupils to 'explore science'
- Reflect the **6 core values** of Featherstone High School

Therefore, pupils will:

- Begin their **learning journey** at Featherstone High School but continue to become **lifelong learners of science**
- **Apply** their skills and knowledge to further study and careers
- **Apply** their skills and knowledge to familiar and unfamiliar contexts in the world
- Become **critical thinkers** and **analysts**
- Continue to build their **curiosity** and **question** the world around them
- Become **resilient scientists** with improved confidence, leadership, and independent skills.
- Use their skills and knowledge to make a positive contribution to the **local and wider community**

We have a large and diverse cohort from the local community in Southall, with around 40 different languages spoken across the school. We want to provide pupils with every opportunity to excel in Science and beyond.

It is our duty to provide pupils with the opportunities to:

- Challenge preconceptions of Science as a subject that may be seen as 'hard'
- Challenge gendered attitudes to Science and STEM, and future career prospects
- Take responsibility for our planet as the only one in our solar system to support life with enormous biodiversity
- Question facts and opinions, and be able to distinguish between them
- Explore ideas about the universe, from the smallest micro-organism to beyond the observable universe