

Hanham Woods Academy

Science Curriculum Statement

Aspire

We raise the aspirations and ambition of our students by:

- Enabling students to answer any question through their skills of unbiased data-collection and critical thinking.
- Preparing students to question what they have heard/ read/ seen in the media using their scientific knowledge.
- Ensuring that students have an awareness of the changes in scientific theory over time and what limitations still exist which they can be part of resolving.
- Working as a department to build high quality shared resources and to continually improve our own scientific knowledge and pedagogy so that every class is taught effectively.

Believe

Our students develop confidence and resilience through:

- Tackling and solving 'Big Questions' about themselves and the world around them
- Experiencing success and progress through assessments of knowledge, understanding and skills developed through a broad and balanced curriculum tested with end of topic tests, skills tests and extended assessments
- Giving students time for reteach from tests so that students' understanding improves, and they can articulate what they need to do to improve further.
- Giving students powerful scientific knowledge to make informed choices about their future health, use of technology and environmental impact.

Inspire

We create awe and wonder in and out of the classroom by:

- Unlocking the secrets of the universe from stardust to the secrets of life itself.
- Giving students understanding about how their everyday life has been theorised about, experimented upon, and changed through scientific discovery.
- Providing opportunities for students to challenge their ideas and understanding through their own discoveries and investigations

Achieve

We help students achieve highly at KS3, KS4 and beyond by:

- Using a spiral curriculum method to teach content so pupils can revisit and build on their current knowledge from KS2 into KS3 and into KS4 and use this knowledge in KS5.
- Ensuring students can apply their knowledge and skills learn in science lessons to their future jobs and experiences.
- Inspiring and ensuring our students are able to take the Sciences at A-level or BTEC Level 3 and at University.