

# SCIENCE

Our vision is to prepare students for the future by ensuring that they are confident individuals that are scientifically literate that allows them to understand the world around them. By challenging them to understand complex scientific principles to enable them to achieve their potential.

## Intent

Our department will inspire students to embrace Science as a fluid and changing subject, understanding that the general governing principles remain constant. Students will develop a sense of wonder and awe by having an in-depth, high - level of knowledge of the world around them. Students will engage through gaining mastery of the subject which will then lead them to having fundamental problem solving and critical thinking skills so they can make informed decisions in order to actively participate and engage in a society.

## Implementation

All students will be taught to the highest level. Teachers use their expertise in scaffolding and deconstruction to enable all abilities to access the highest content. Teachers will use high quality questioning and feedback to check understanding and challenges misconceptions. These techniques generate time for reflection and guidance to help all pupils improve and gain confidence for future problems.

Students are encouraged to apply complicated concepts (such as Science laws) to everyday examples – e.g. cars with a bigger engine will have a greater acceleration. Linking to real life examples and jobs to engage the students and encourage them to link their learning to possible careers.

The science department understands that remembering knowledge is a key to success so the use of dual coding (associate key words with pictures or diagrams) and chunking information as well as regular revisiting of keywords and knowledge in lessons will help students to be more confident and therefore happier.

## Impact

The curriculum will allow all pupils to build upon prior knowledge and correct misconceptions over their time at Budmouth. This will lead to them being able to discuss current scientific issues with informed points of view in order so they add to society. They will be able to retrieve knowledge confidently and have developed problem solving and analytical skills. This will enable them to apply their gained skills to obtain their full potential within their exams and possible future careers.