

SCIENCE

Our vision is to prepare students for the future by ensuring that they have both knowledge and skills 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 allow students to embrace Science as a fluid and changing subject, understanding that the general governing principles remain constant. Students will develop an insight into how science has helped developed the world by gaining an in-depth, high - level of knowledge that has catalysed this progress. 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 modelling to enable all abilities to access the highest content. Teachers will use questioning and feedback to check understanding and challenge 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. The science department understands that remembering knowledge is a key to success so chucking information as well as regular revisiting of keywords and knowledge in and out of lessons will help students to be more confident.

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.