

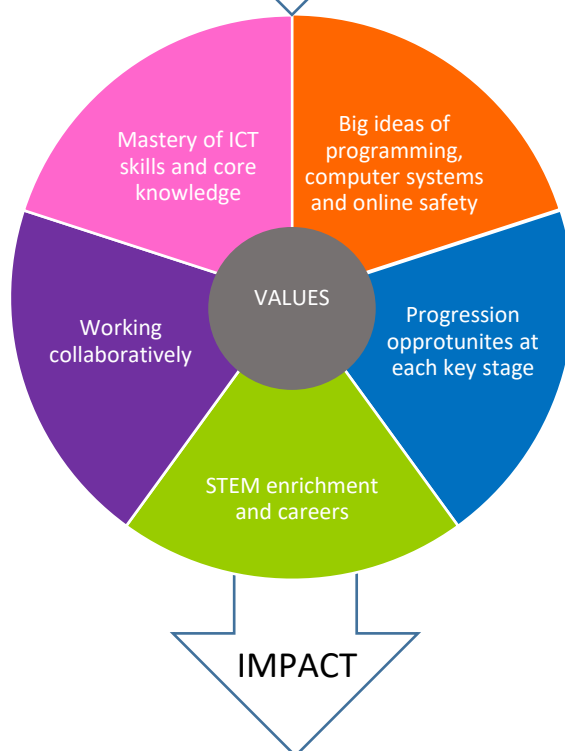
# The Computer Science Curriculum

## INTENT

Our aim is to show our students how Computer Science affects and helps our everyday lives and can be utilized to solve problems and improve our world. Our curriculum is designed to utilize ICT skills whilst developing student knowledge of how Computer systems work and a base knowledge of Python Programming. By studying Computer Science our students will be able to develop their logic and problem-solving skills whilst gaining knowledge of the computer systems we use on a daily basis and a better understanding of the wonderful World Wide Web, all whilst teaching them to be safe and responsible online.

## IMPLEMENTATION

With a mastery approach to teaching and learning students will be encouraged to explore the architecture of computers and the science of computing. They will be challenged to use programming to solve problems and will need to develop mastery skills in logic to be able to debug the code they have written, then encouraged to develop them further by using their own ideas to make them exceptional and user friendly. It is our intention that we embed careers links into our courses so they can see the relevance of Computer Science in every career path and the exciting opportunities that Computer Science can offer in the world of work, thus inspiring students to succeed to a high standard.



Students at Brixham College will be motivated to succeed in Computer Science due to a fun, relevant and accessible curriculum that will introduce and develop their interest in the wonderful world of computing. This will be achieved with a high-quality curriculum accredited by STEMS National Centre for Computing Education that has been adapted for our students to show the relevance of Computer Science in our daily lives. Careers links will be made throughout their computer science education including involvement from local Computer Science based companies that have a global impact to help students to aim high and access opportunities into a computing career. Our students will become safe and responsible online citizens with excellent logic and problem solving skill who strive for success.