



Christ's College Guildford

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www.christscollege.surrey.sch.uk



Subject: Design & Technology – Resistant Materials

Year Group: 7

Curriculum Intent:

We aim to ensure that all pupils:

- ♣ Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.
- ♣ Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users.
- ♣ Critique, evaluate and test their ideas and products and the work of others.

College Values:

We understand that not every student will leave school as a master engineer, but every student can enjoy learning about themselves and how they can fulfil their potential. We firmly believe that there is a creative path out there for everyone to enjoy and our curriculum will help develop the whole person and not just their practical attributes.

Knowledge and Skills:

Through a variety of creative and practical activities, pupils will be taught the knowledge, understanding and skills needed to engage in an iterative process of designing, making, through to the evaluation. They will explore product development through a range of domestic and local contexts [for example - the home, health, leisure and culture], and industrial contexts [for example - engineering, manufacturing, construction, food, energy, agriculture and fashion].

Assessment:

Verbal Guidance, visual demonstration of projects being produced, displaying a range of practical skills showing development, and feedback.

End of Unit Assessments completed after each unit of work, feedback provided in the form of a grade.

Practical project work analysed by self, peer and teacher with accompanying written assessment and grade.

Written and verbal feedback on google classroom for homework.

Flight path information and front sheet used to aid support for students to understand their progress.

Questions to be used in written feedback to engage student conversation

Homework:

Homework will be set via Google Classroom with the possibility of receiving a worksheet in lesson. Students will receive 3 pieces of homework per half term covering one topic area.

Cultural Capital:

Further subject knowledge can be gained through visiting the BBC Bitesize website which has theoretical information, helpful videos and short quizzes.

Watching programs based around project design, materials and engineering, such as Grand Designs and The Repair Shop on the BBC.

There are many free online resources to help develop and stimulate their artistic and creative minds through CAD/CAM, such as TinkerCad, Fusion360 and 2D Design.