



Year 7- Core DT- Malaria

Learning about this topic is important because:

Designing and modelling a mosquito net support frame not only develops essential design and technical skills but also cultivates empathy, global awareness, and a sense of social responsibility. It empowers students to use their knowledge and skills for the betterment of society and addresses critical global health challenges.

HPL group task focussing on developing valuable transferable skills- collaboration, communication, teamwork, inclusion and presentation skills.

This builds on:

This project takes the foundational concepts and skills learned during KS2 and applies them to a more advanced and socially relevant context. It deepens students' understanding of design and technology, introduces them to real-world issues, and prepares them for more complex design challenges in the future.

This leads to:

This project leads to a deeper commitment to addressing global health challenges and social issues. It instils values of empathy, social responsibility, and the potential for positive change through Design and Technology.

We will learn:

This project provides a holistic learning experience that combines design principles, technical skills, problem-solving, safety awareness, and an understanding of environmental and societal impacts. Fostering values of empathy, global awareness, and social responsibility.

- Carbon footprint
- CAD (2D & 3D)
- Importance of teamwork and collaboration
- Importance of time management
- Empathy & Global awareness
- Environmental & Sustainability awareness

We will develop/practise skills including:

- Research & Design skills
- CAD skills
- Collaboration skills
- Presentation & Communication skills

Some of the vocabulary that we will use includes:

- Carbon Footprint
- Triangulation
- Compression
- Tension
- CAD- Computer Aided Design
- Collaboration

You could learn more about this topic by:

[Malaria Animated - YouTube](#)

[A 'game changer' for cardboard box waste? - BBC News](#)

[Mosquito Net Making Business | StartupYo | www.startupyo.com - YouTube](#)



Your teacher will assess your knowledge & understanding throughout the topic by looking at your work, questioning, discussion and giving you feedback in lots of different ways. The key pieces of work in this topic are:

Groups deliver a presentation to the rest of the class at the end of the project with assessment based on- Research, Design and Evaluation. Students also sit an end of unit written exam.