## STEAM KS4 Engineering unit 2 Overview — Completion date:

## You will:

- Learnt to use all the modelling functions of solidworks.
- To be able to model moderately complex parts.
- To be able to create assemblies which move with planned constraints
- To be able to create engineering drawings that are accurate and effective.

## **Lesson Overview Key Words** 1. Modelling parts in 3D using basic tools 2. Modelling parts using more complex tools and Parametric model reference geometry. Loft, Sweep, Revlove. Assembly 3. Assemblies using simple mates and those which Mate allow constrained movement. Extrude 4. Generate a mechanical assembly in CAD Revolve CAD CAM **Cross curricular** Maths skills are key here, the conversions, angles, Youtube channel for Tootalltoby will give advice and shapes and circles knowledge will be developed some great challenges for this unit. through CAD. Creativity is developed through the problem solving of how to build things in CAD, there are many ways but some are better than others.