

## Subject: Technology Year 9 Revision guidance

For the Summer Assessment Mark, pupils are assessed on their project written coursework, manufacturing skills and in an examination paper. The following details what assessment work is to be submitted. Details of the topics to be revised for the examination are given below and in the learning outcomes at the front of the Mechanical Buggy and Nut cracker project booklets.

### I HAVE:

Written a Problem Identification for the project.

Drawn a 3D / isometric view of my buggy project, and drawn several buggy Ideas, annotated.

Completed research on buggies/robots and included conclusions

Manufactured a mechanical buggy and tested/evaluated it.

Areas of revision: These include all theory taught this year in the nut cracker and buggy projects. Safety is also included.

Wood theory, including types, joints, tools, and finishes

Use of manufacturing techniques, including gluing, screw types, pillar drill, marking gauge use, coping saw use, finishing.

CAM theory, types, and follower types, and examples.

.Lever types, class 1,2,3. Simple calculation of a class 1 lever

Examples of levers in our world

Aluminium theory, including manufacturing processes (bending, finishing, etc.)

Metals theory: ferrous and non-ferrous.

Use of tools and manufacturing techniques

Electrical circuit theory, using switches DPDT to reverse motor direction

Gears and pulleys theory

Calculations involving speeds and ratios of gears and pulleys.

The Written and Practical Coursework forms 50% of the summer Assessment Mark. An examination will test all work done throughout the year and is 50% of the Summer Assessment mark. Particular emphasis will be on work done after Christmas. Ensure all parts of the Booklets are completed.

Any particular concerns should be discussed with the subject teacher, or Mr Turtle.