NCCA

An Chomhairle Náisiúnta
Curaclaim agus Measúnachta
National Council for
Curriculum and Assessment

Junior Cycle Applied Technology Classroom-Based Assessment 2: Example of Student Work 04

January 2024

Strengths

Soldering

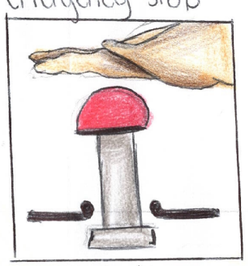
- All my circuits worked the first time.
- They usually look neat.

(Peg & Slot)

Introduction

This is my technology CBA2. In this CBA I will be talking about my best projects (helicopter, peg in slot) My strengths and weaknesses that I have noticed or improved on over the years. This includes soldering, machines and design. Another topic I will be speaking about Health and Safety (PPE, how to properly use machines ect.) Design and Soldering are two other topics I talk about but they are self explanitory

Emergency stop

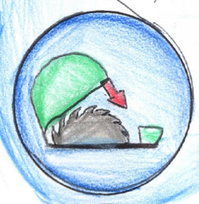


push button

Health & Safety

For the 2 years i've been doing technology i've learnt a lot about heath and safety and how to use machines and hand tools properly. i've also learnt all about ppe (personal protection equipment) for example safety glasses. These are worn for a lot of different reasons as they protect your eyes from and dust or just anything that could damage them. We were also taught in 1st year about all the safety features on the machines this includes an emergency stop button this is on most machines and is usually a big red button.

Another example is a gaurd is in place. A ~~tool~~ tool that people should always be ~~cat~~ careful is a soldering iron. We started using them in 1st year and were always told to put them in a stand but one day someone forgot that & pulled the cord burning my hand. This year I will be careful using all equipment by using PPE & being ~~ca~~careful on machines

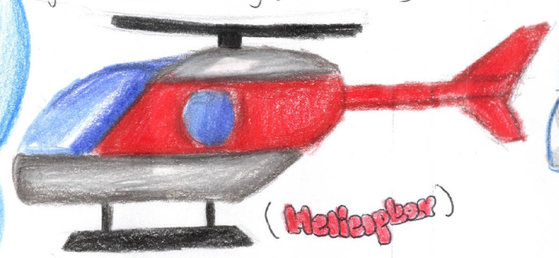


Mechanism

Old projects

Helicopter

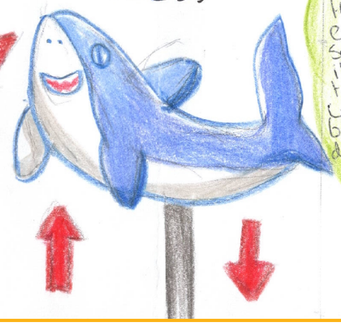
This was the first project I ever completed I was very happy with it overall. I got 92% on it as it had a nice design and the circuit worked. My circuit worked the first time even though it was my first time soulderingI think the helicopter was a good first project to do as it was not to hard and was a great introduction to soldering and just technology in general.



(Helicopter)

Peg & Slot

The peg & slot was a project we did in 2nd year we did a similar project in 1st year ~~except~~ except that was manual for my peg & slot project I did a sun going back and forwards This was the first project I ever drew up a design on coral draw and used the lazercutter



(Cam)

Design

Most of my projects have a nice designs and look tidy, there are many ways to achieve this. Making sure your project looks neat and have a nice design will ensure you get a higher grade as presentation is one of the factors they take ~~into~~ introduction into ~~consid~~ consideration when grading your project Make sure your circuit works & doesn't look to messy don't have so much solder where you can't even see the circuit. ~~works and doesnt~~ Also make sure there isn't hot glue all over your project and lastly try to choose an idea that no one else is doing. sometimes a tidy basic project looks better than a complicated messy one.

Soldering

I have completed so many circuits since 1st year including the motor circuit and the night time circuit. I've been lucky enough that it has always worked the first time. But sometimes if the wires touch or it hasn't been soldered properly it won't. Building circuits can get quite difficult when trying to twist the wires enough so they all fit in the hole and using the right amount of solder. Just enough that it stays but not too much where it looks messy or you solder 2 different wires so it doesn't work

Weaknesses

Soldering

- Sometimes I put too much solder on and the wires get soldered together and don't work
- It's very easy to burn yourself

This poster was approximately A3 in size

Teacher annotations using the Features of Quality

The annotations capture observations by the teacher, using the features of quality, with a view to establishing the level of achievement this work reflects. The annotations and judgments were confirmed by a Quality Assurance group, consisting of practising teachers and representatives of the NCCA, the Inspectorate, the State Examinations Commission and the Oide support service.

Teacher annotations

Self-analysis of coursework elements:

The student identified a range of coursework elements through their engagement with projects in first year and second year. This allowed that allowed them to make valid observations and some relevant self analysis on the development of their skills to date.

Making judgements:

Judgements were made on areas of strengths and areas for improvement. A greater awareness could have been demonstrated by providing more detail in how the areas for improvement could be further addressed.

Communicating their CBA:

The presentation of the findings was of a very high standard using a series of rendered sketches on a well laid out poster. The student carefully considered what information best communicated their Classroom-Based Assessment.

Overall judgement:  In line with expectations