



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 03

January 2024



Classroom Based Assessment 2 student self analysis and evaluation

Applied Technology

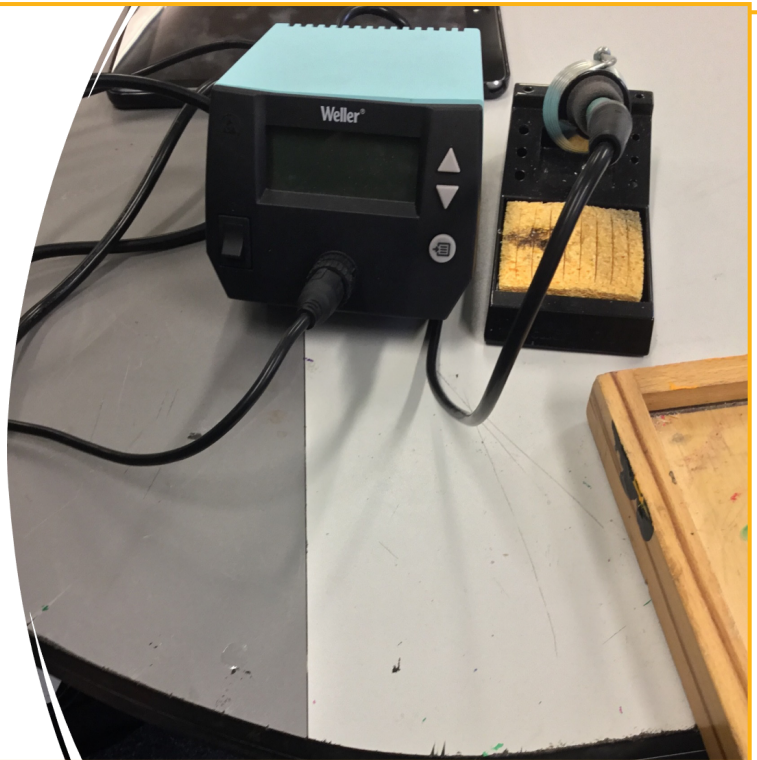
Skill 1 – drilling

Drilling is a very important skill to use when you need highly accurate holes to be created in materials such as wood and acrylic. I used the drilling skill when I made my nail dryer in second year. I drilled the top of the wood to make a hole to place my fan. I think drilling is my favourite skill in technology as I find it easier to use a ruler to trace where I want the hole for my project and I find drilling into wood easy. I am better at drilling wood then acrylic because I always crack it and end up having to start again.



Skill 2- soldering

I used soldering for my moonlight project in second year. I soldered two wires in order for the light to turn on. I think soldering is important as it helps with soldering wires. Soldering is one of my best skills in applied technology as I find it easy to solder wires together. I also used the soldering iron when we were soldering circuit boards. Some safety precautions are the iron is extremely hot so don't touch it and make sure to turn it off when not using it.



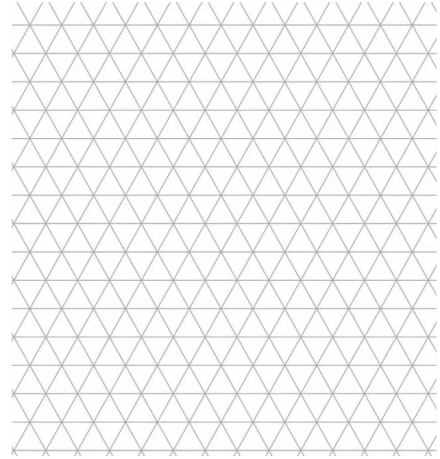
Skill 3 researching



- I used researching for my first classroom based assessment in second year as we had to make it on a controlled system. I did it on the fire alarm control system and researched: how it works, what a FACP is and why it was made. I think researching is one of the most important skills as it allows you to find information and use it effectively. My strength in researching is that I don't copy and paste much to avoid getting the wrong information and not finding the original source.

Skill 4 sketching

- I used the sketching skill for every project but the one I enjoyed the most was the desk tidy. I sketched where each piece of wood would be and what design I wanted on my acrylic. Sketching is an important skill in technology as it allows you to use your creativity to help plan out your projects. I think sketching is one of my weakest skills in technology as I am not the best at drawing and I get confused using isometric paper.



Skill 5 sanding

I used the sanding skill for the desk tidy project in second year. Sanding is an important skill in applied technology for sanding edges and smoothing them. Sanding is one of my weakest skills as I tend to over sand edges and have to start my project again. As you can see this projects sanding is not very good.



Skill 6 sawing

- I used the sawing skill for my moonlight stand project. I think sawing is one of my weakest skills because even though I trace the line of where I wanted to saw I always end up messing it up and having to start again. Sawing is an important skill in technology for cutting pieces of materials into different shapes. Sawing requires a lot of focus as it can be dangerous. Some safety hazards to follow while sawing are- tying up your hair-making sure hand is away from the saw -don't use too much tension when using a scroll saw.



Skill 7 designing

- I used designing in all of my projects in applied technology. Design is an important skill as it uses a lot of creativity of how you would want something to look like. I think im very creative so designing is really easy for me.



Skill 8 bending

- I used the bending skill on most projects but the one I did really well on was the phone stand. Bending is an important skill for produce straight line bends in acrylic and other thermo-plastic sheet materials. Bending is definitely the easiest skill as it doesn't require a lot of effort. Safety hazards to follow –keep hands and fingers clear of the hot surface of the strip- support the material to be heated.



Skill 9 filing

I used this skill for many projects but the one I did the best on was the moonlight stand. Filing is really important to remove/smooth rough and sharp edges from acrylic. Filing is definitely my weakest skill because my acrylic always gets uneven and I have to start again. Filing definitely not my favourite skill either as it takes up too much time.



Skill 10 microbits

- I used the microbits in second year for coding. I coded flashing hearts and words such as "hello" and "goodbye". We didn't really do much but I found it really easy as I did coding in second class using scratch. Coding is an important skill as it can enhance problem solving skills, for example identifying patterns and creating solutions step by step.



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 broad range of coursework elements through their engagement with projects in first year and second year. This allowed that allowed them to make detailed observations and a comprehensive self analysis on the development of their skills to date.

Making judgements:

Judgements were made on areas of strengths and areas for improvement were clear. While there was some awareness of how these would inform future work, 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 PowerPoint presentation and using photographs of past projects. The student carefully considered what information best communicated their Classroom-Based Assessment. A refinement of the text used on slides and the use of other media such as video/audio could have complimented the communication of the Classroom Based Assessment.

Overall judgement:  In line with expectations