NCCA

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

Junior Cycle Graphics Classroom-Based Assessment 2:

Example of Student Work 05

January 2024

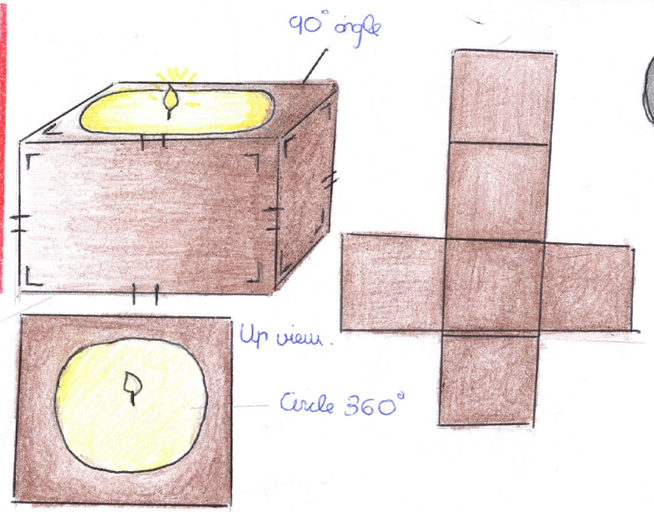
GEOMETRY IN CANDLE HOLDERS

Primary research.
When I did the research at home I found three types of candle holders, they had parallel lines, 90° degree angles and very simple shapes such as squares, circles, and cylinders, and they were made out of very simple materials like wood or plastic.

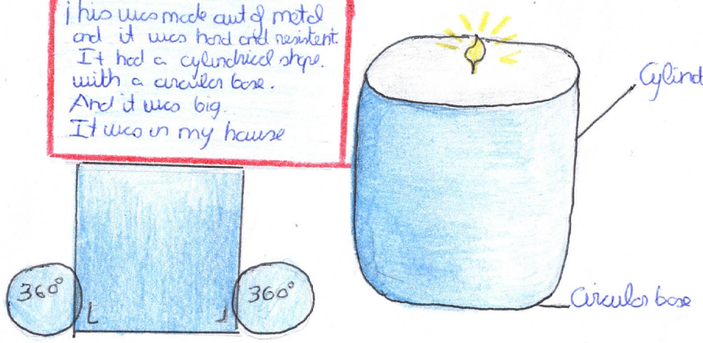
Secondary research
On this secondary research I went online and found two candle holder, that were very complex. Both of them were very big and heavy and both of them had a lot of geometrical shapes like triangles and hexagons, they both had at least more than 2 figures. They had 90° and less degrees angles. They were made out of metal.

Google images reference.

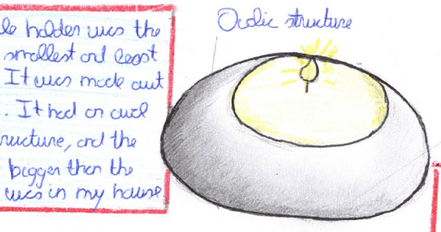
This candle holder is made out of wood, and it was pretty heavy. It had a cubical shape and at the top there is a small circle where the candle is introduced. All of the sides are the same length and have a 90° degree angle. This one I found it in my house



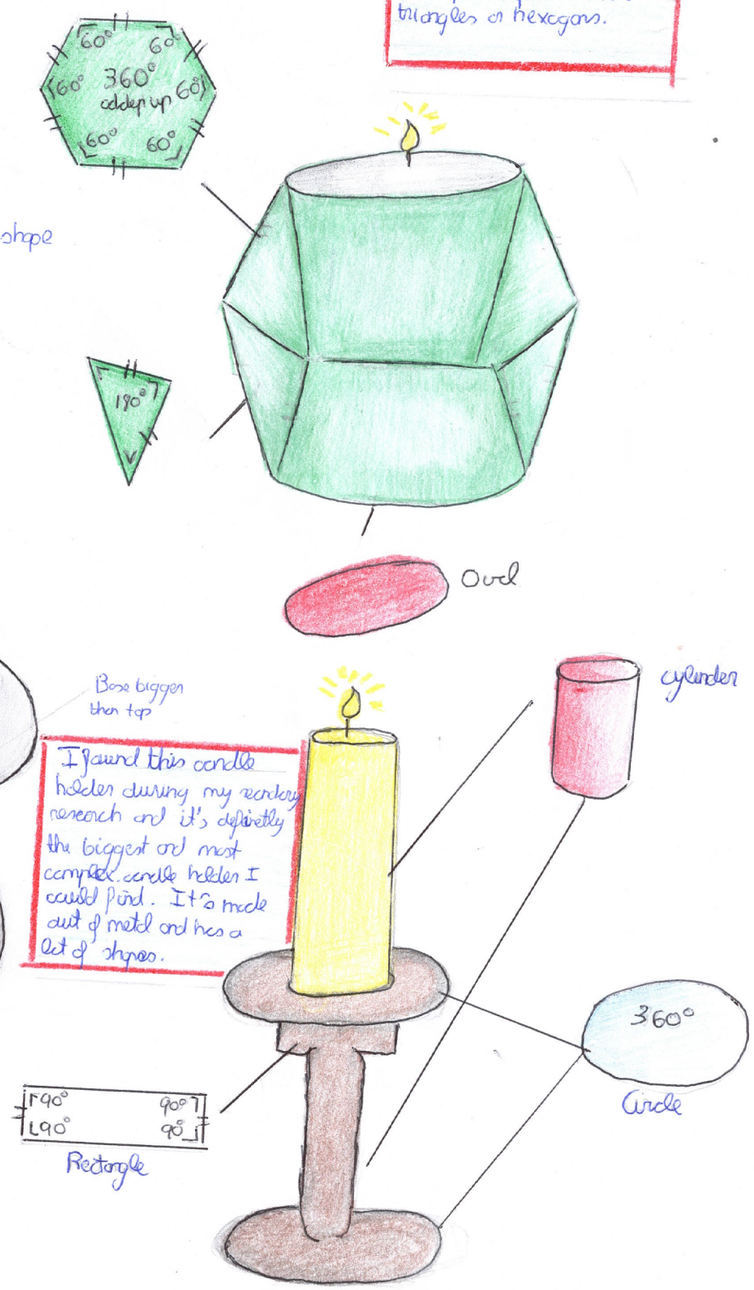
This candle holder is made out of metal and it was hard and resistant. It had a cylindrical shape, with a circular base. And it was big. It was in my house



This candle holder was the lightest, smallest and least resistant. It was made out of plastic. It had an oval shaped structure, and the base was bigger than the top. It was in my house



I found this candle holder during my secondary research and it's definitely the biggest and most complex candle holder I could find. It's made out of metal and has a lot of shapes.



This sheet 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

Research and analysis:

The research method chosen was appropriate for their area of learning and generated some analysis. The student completed both primary and secondary research and used this research as a foundation to explore the geometry of a variety of candle holders.

Exploring concepts:

The response demonstrated some level of understanding of concepts relevant to the domain. This was evidenced through the sketching of relevant 2D and 3D geometry, complimented by appropriate annotations. Some of the geometry could have been further interrogated.

Graphical presentation:

The findings were presented to a high standard using an A3 sheet. The use of highlighted text boxes further enhanced the quality of the presentation. Using 2D and 3D rendered sketches and annotations, the student carefully considered what information best communicated their Classroom-Based Assessment.

Overall judgement:  In line with expectations