

Introductory text for JCSP Statements Supporting The Junior Cycle Engineering

The statements below were developed with input from a number of practicing Engineering teachers in JCSP schools. They are offered **as one possible model** that teachers may use to approach the new Junior Cycle Engineering Specification. They will be adjusted over time based on feedback from teachers in JCSP schools.

The new Engineering Specification may be accessed in full at www.curriculumonline.ie.

In addition, support for teaching of the Junior Cycle Specification may be accessed through the Junior Cycle for Teachers (JCT) Technologies team at www.jct.ie.

It is important to note that the statements below offer a sample approach for the creation of Junior Cycle Engineering statements. They do not cover all of the learning outcomes which are expected to be taught in the new junior cycle course.

August 2023

I can research, design and manufacture in Engineering

Engineering

Statement Code: ENJC2

Student:

Class:

I can

I have begun | I am working on this | I can

This has been demonstrated by my ability to:

1. Carry out both primary and secondary research
2. Compare old and new technologies, such as a scooter and an e-scooter, and explain the differences between them
3. Investigate if the design and manufacture of a household item is environmentally friendly
4. Read and use a working drawing
5. Transfer measurements from a working drawing onto a piece of material
6. Make a part using a working drawing
7. Suggest an improvement to a given item e.g. game controller, mouse, headsets, gaming chair
8. Identify various mechanisms and use in a project
9. Bend a material accurately to a given angle
10. Solder an electronic circuit using at least 3 electronic components
11. Use coding software to program a mechatronic system
12. Complete a part or project to a high quality finish by filing, polishing or painting

Reflecting on my learning...

One thing I did well...

One thing I did to improve...

I really enjoyed...

because...