

Draft Engineering Statements

The following statements comprise draft statements 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.

November 2021

I can communicate my understanding of Engineering concepts

Engineering

Statement Code: ENJC3

Student:

Class:

I can

| | | |
|--|--------------------------|--|
| I have begun <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> I am working on this <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> I can <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| This has been demonstrated by my ability to: | | |
| 1. Create a 2D sketch to show my first design ideas | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2. Create a 3D sketch to show the steps towards my final design | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3. Produce a working drawing of a part(s) of a project using drawing equipment or CAD software | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4. Analyse an object and list the materials and steps involved in making it | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5. Make a model using various materials such as card, paper or foam | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6. Use engineering terms when annotating/labelling drawings and sketches | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 7. Present information to others using any appropriate media | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8. Develop my communication skills using digital technologies | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9. Work as part of a group or team to develop social and team-building skills | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10. Reflect on the quality of my work | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11. Examine my completed project(s) and list possible improvements | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 12. Explain the choice of materials and the steps taken to make my project | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Reflecting on my learning...

One thing I did well...

One thing I did to improve...

I really enjoyed...

because...