

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 understand the procedures, materials and processes in Engineering

Engineering

Statement Code: ENJC1

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. State the classroom rules and daily routines e.g. tidying my workstation at the end of class	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2. Use hand tools and machines correctly and safely	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3. Look after my project and store it in the correct place	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
4. Identify common engineering materials such as metals and plastics	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. Explain where common engineering materials such as metals and plastics are used in everyday life	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6. Select a material to manufacture a product based on its properties	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
7. Secure a workpiece properly and use the drill correctly	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
8. Select a suitable tool for cutting a material and use it correctly	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
9. Identify various engineering joining methods such as nuts and bolts, rivets, solder and adhesives	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
10. Explain the reason why a joining method was chosen for an every day object e.g. joining wires, meccano sets	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
11. Identify various electronic components and symbols	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
12. Select appropriate finishes for materials such as filing, polishing or painting	<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...