Engineering

JCt4 Newsletter

Junior Cycle for Teachers

Junior Cycle for Teachers exists to **inspire**, **support** and **empower** teachers in the transformation of Junior Cycle education in Ireland.

STE(A)M

The JCT Engineering team continue to be involved in the JCT STE(A)M initiative. These workshops investigated how real-life problems could be solved by taking an Interdisciplinary approach. The Theme was "Ireland 2050".

STEAM Elective workshops are currently being developed with Industry partners for 2019 – 2020.

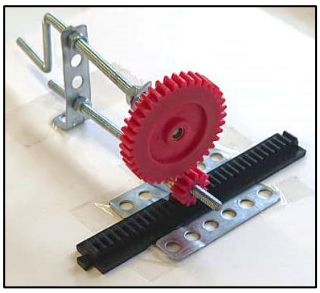
Further details will follow in the next school year.

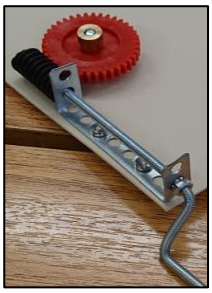
or

Contact: steam@jct.ie

Welcome

Welcome to the second issue of the JCt4 Engineering Newsletter. September 2019 will see the introduction of the Engineering specification for incoming first year students across the country. As of now JCt4 have engaged with 581 teachers of Engineering across 87 Professional Learning Experience (PLE) workshops throughout the country.





Examples of Mechatronics from PLE 2018 / 2019

Teachers have begun to engage with the rationale, strands, elements and learning outcomes, and plan for the implementation of the new specification in September 2019.

Webinar 2019 recording

Our Webinar on April 1st was developed to support our core PLE day 2018/2019 and further develop an understanding of teaching, learning, assessment and reporting in the Engineering classroom. Learning outcomes were explored and teachers developed units of learning specific to their school context. A recording of this webinar is available in the electives folder of the Engineering section of www.jct.ie . It can be accessed here.

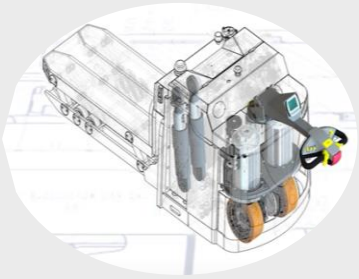
PLE 2019 / 2020

The JCt4 Engineering team are currently designing our core PLE day 2019/2020 for Engineering teachers. The design of PLE 2019/2020 is heavily influenced by the feedback provided by Engineering teachers following this year's workshop. Teachers are currently planning for September 2019 with the new specification. As you reflect, you may have identified an area which you wish PLE 2019 / 2020 to focus on. You may forward any comments to info@jct.ie. Alternatively, you may also directly contact individual team members via email, details of which may be found here.

JCt4 Making Connections

COMBiLIFT
LIFTING INNOVATION

The JCt4 Engineering team are currently working with our partners in CombiLift. Resources are being developed which consider real life applications of Mechatronics in Industry. These resources will take into consideration the themes in the rationale of the Engineering specification and the skills which students will require to be the Engineers of tomorrow.



Watch this space for further developments.

Keep in touch

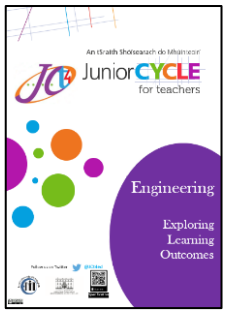
Three ways to keep up to date with the JCt4 Engineering team are:

@JCt4ed

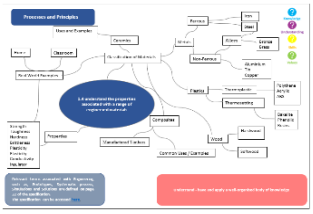
An tSraith Shóisearach do Mhúinteoirí
JuniorCYCLE for teachers
www.jct.ie

Mailing List

Planning



The 'Exploring Learning Outcomes' document may be used by teachers to identify learning within and across the learning outcomes. It provides guidance and direction to support teachers at the first stage of the planning process. This can be found in the planning section on our website. This may be used prior to the digital planning tool or to accompany a teachers personal planning format. The digital planning tool may also be found on our website.



Applied Technology PLE

A second opportunity is being offered to teachers to avail of the Applied Technology PLE 2018/2019. This is a one-off opportunity in September 2019 and will only apply to teachers of Applied Technology.

If a teacher wishes to avail of the opportunity, they should consider requesting their school to register them. The dates are 17th September in Galway Education Centre, 26th of September in Navan Education Centre, and 30th of September in Oriel House Hotel in Cork. Registration is via www.jctregistration.ie.

Mechatronics

Mechatronics continues to be a consistent theme in our newsletters. In this issue we highlight a news article in the Irish Independent. It is available here. This may stimulate conversation in a classroom. It may instigate student engagement in learning outcomes 3.3, 3.4 and 3.5. The article demonstrates the advancement of mechatronics, and its impact on our environment. Students could investigate and explore our current environment, and foster their appreciation for mechatronic applications. There are also two videos used in our webinar titled 'Engaging with the engineering specification'. These may also engage students in the same learning outcomes.

We wish you an enjoyable summer and look forward to supporting you with the implementation of the Engineering specification in 2019 / 2020.

Kind regards,
The JCt4 Engineering Team