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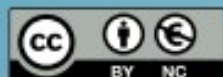
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Ghairmiúil i measc Ceannairí
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Supporting the Professional
Learning of School Leaders
and Teachers

Applied Technology

Professional Learning Booklet

2023-2024





Applied Technology PLE 2023/2024

Themes for Today



Evolving Practice



Focus on Learning

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Ice Breaker Activity

- Introduce yourself to colleagues at your table
- Share **one positive learning experience** that your students had in Applied Technology this year

Notes

Evolving our Practice – Video and Discussion

In implementing the subject specification,
how is your practice evolving to support student learning?

Notes

Evolving our Practice – Personal Reflection

Three points you took from this discussion:

Two actions you will take on return to your subject department:

One way that you will measure your progress:

Student-Centred Learning – Video and Discussion

How is a student-centred approach evident in the design of these learning experiences?

Notes

Session 2

Student-Centred Learning – ‘My Lamp Design Guide’

Instructions:

1. Using your digital device, open ‘My Lamp Design Guide’.
2. In pairs, consider the question below



<https://tinyurl.com/techple2324>

How does ‘My Lamp Design Guide’ support student-centred learning?

Notes

Opportunities for Future Learning

Choose one project/task that may appeal to your students.

How could you adapt this project/task to meet the needs of students in your context?

Factors to consider:

- Prior knowledge of your students
- Key learning intended
- Strategies
- Resources
- Assessment

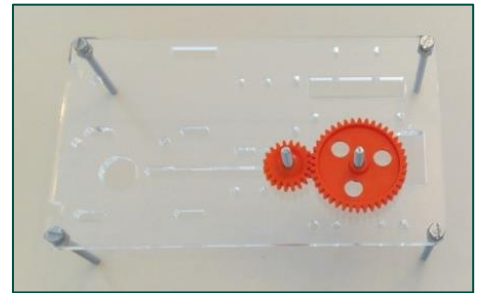
Notes

Teacher Activity 1

How can students learn about gear ratios in a practical way?



Notes



Key Terms

Investigate and Record



Teeth on Driven Gear	Teeth on Driver Gear	

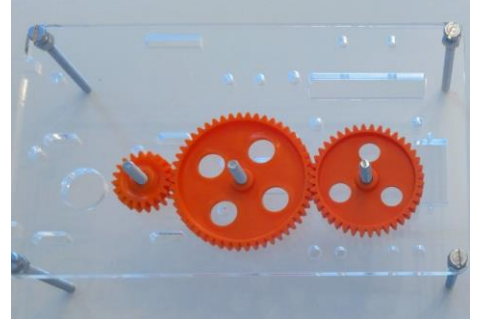
Rotations of Driver Gear	Rotations of Driven Gear	

Compose your own mathematical sentence(s) to describe the relationship(s) between the **Driver** and the **Driven** gear.

Teacher Activity 2

What impact does the idler gear have on the driven gear?

Notes



Key Terms

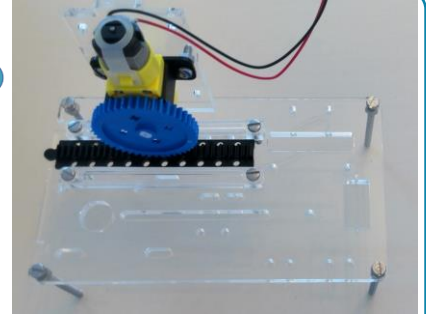
Teacher Activity 3

Explore how students could learn about the distance a rack travels when driven by a pinion.

Notes



Multiple ways to better understand the relationship between a rack and pinion



Key Terms

Advancing an Idea from a Prototype to a Final Solution

What strategies can support students in advancing from a prototype to a final solution?

Notes

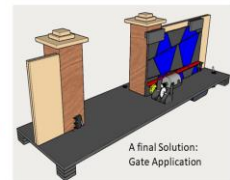


Moving Forward...

Let's explore advancing a
idea from a prototype to a final solution



Prototype



A final Solution:
Gate Application

Teacher Reflection/Feedback

Three things that I have learned during this PLE Workshop

Two approaches that I will take into my classroom

One thing that I will reflect on

Link to Resources



Scan the QR code to access the resources from today's sessions or go to

tinyurl.com/techple2324

Notes:



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