**October 21, 2019**

**POE Workshop**

**PLTW Networking Conference**

**Presenter: Eric Rice**

**Using the Engineering Design Process to Speed-Up the Solar-Hydrogen Fuel Cell Car Activity**

The Engineering Design Process is at the heart of the predictive engineering analysis (PEA). PEA is a development approach for the manufacturing industry that helps with the design of complex products. Teachers will work through activity design enhancements which include using EDP/PEA and students’ knowledge of mechanisms to develop drive trains for the Solar-Hydrogen Fuel Cell Car Activity.



# Design Brief

## Background:

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## Problem Statement:

## Constraints:

## Specifications:

Design and test a gear train, Compound Gear Train, and/or Sprocket & Chain System to enable the vehicle to travel faster.

**Sketch the Mechanism**

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**Engineering Calculations** (Show how your idea will increase/decrease Torque and Speed)

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