**Introduction:**

For this activity, you will be examining NASCAR data and exploring relationships between key variables relating to driving performance. Using data transformations to create different variations of a linear model, you will enhance the capabilities of your models to make them more effective and accurate.

**Learning Goals:**

By the end of the activity, you will have practiced:

* Assessing model effectiveness
* Checking model assumptions
* Transforming data to better fit a linear regression model

**Methods:**

For this activity, students will need to use software to create scatterplots and examine both residual and fitted values of created models. They will also need to mutate the data by applying mathematic functions to columns.