

## 8<sup>th</sup> Grade PBL

### Let's Buy a Car!



**Driving Question:** How can we determine the financially best car value over time when purchasing a car?

**Content:** Students will work with a partner to compare the cost of two cars. At least one car must be brand new. Assuming a 5% APR, 5-year car loan and a 20% annual depreciation, students will explore the power of exponential decay as they see how quickly cars depreciate and then are able to compare the value of the two cars after a 5-year time period.

Students will present their 2 cars in a presentation format of their choice, demonstrating how quickly each car depreciates and why their favorite car was or was not the best investment.

#### **Standards:**

8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

RL8.1 Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn.

W.8.1.B Support claims with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.

#### **Major Product**

A persuasive presentation demonstrating why the students chose one car over another. Presentation may include financial as well as non-financial reasons for the decision.