Auburn Cord Dusenberg Field Trip

**Grade Level** Fifth Grade

**Academic Standard:** Science 5.3.11 *Investigate and describe that changes in speed* or *direction of motion of an object are caused by forces*. *Understand that the greater the force, the greater the change in motion and the more massive an object, the less effect a given force will have.*

**Goals/Objectives:** The students will be asked to select two different vehicles to determine why the cars are designed differently with 100% accuracy.

The students will be asked to write four different facts learned during the field trip, in their science journals, including a fact about how force affects the performance of cars.

**Assessment ideas discussed:** I will ask the students to draw a picture of two different vehicles from the museum and explain which one would have more force and why? Once we complete the field trip and arrive back to the school, the students will create a journal entry in their science journals explaining four specific facts they learned during the field trip. (One of the facts must be describing what they learned about force.) They will then be asked why certain cars are designed differently.

**Description of Field Trip:** The students in Miss Brandon’s fifth grade class will be attending a field trip to the Auburn Cord Dusenberg Museum in Auburn, Indiana. During this field trip the students will be learning about force, motion, and why certain cars are designed differently. The Museum works well with teachers to find academic standards that fit the school’s curriculum. The Auburn Cord Dusenberg Museum offers students with an abundance of observation, learning and hands-on activities. During the field trip, the students will watch a 13 minute video introducing and explaining the importance of the Museum. The students will then have the opportunity to look around the museum at all of the different vehicles, as they participate in a scavenger hunt that was created by the staff at the Museum. Then they will also get to participate in many hands-on activities including simulation of an assembly line. The Auburn Cord Dusenberg staff will also work with the teacher by creating a presentation that fits the class and school’s curriculum.

Even though the Auburn Cord Dusenberg has many activities to participate in and cars to observe, the field trip will not take an entire day. The trip takes approximately 90 minutes to two hours. The Museum is also a wonderful place to take students because the cost is very inexpensive. The Auburn Cord Dusenberg Museum charges $1.00 for every student, but teachers, bus drivers, and chaperones get in free of charge. It is nice to know that I can ask for parent volunteers to chaperone this trip, but they will not be charged to attend.

**Tools needed for the trip:** The Auburn Cord Dusenberg has created a scavenger hunt that the upper elementary students can use as they walk through the museum. This would be one of the tools that I could use on the trip. I will also give the students a piece of
paper to draw two different types of vehicles and then have them explain which one would probably have more force and why? This will be part of the student’s assessment. Another tool needed for the assessment part of the field trip is the student’s science journals. They will use their science journals, once they arrive back at school, to write four different facts learned, including one about force.
Directions: After drawing two different vehicles, in the rectangles provided, explain which vehicle would have more force and why? Your answer will be written on the lines provided. The vehicles must be drawn from exhibits at the Auburn Cord Dusenberg Museum. Have Fun!