

Course Title – Car Care	
Implement start year – 2017-2018	
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Unit #2 - Vehicle identification and Expenses	
Transfer Goal – Students will be able to use critical thinking and problem solving skills when assessing a vehicle for purchase.	
Stage 1 – Desired Results	
<u>Established Goals</u> 2009 NJCCC Standard(s), Strand(s)/CPI # (http://www.nj.gov/education/cccs/2009/final.htm) Common Core Curriculum Standards for Math and English (http://www.corestandards.org/)	<u>21st Century Themes</u> <u>(www.21stcenturyskills.org)</u> <input type="checkbox"/> Global Awareness <input type="checkbox"/> Financial, Economic, Business and Entrepreneurial Literacy <input type="checkbox"/> Civic Literacy <input type="checkbox"/> Health Literacy <input type="checkbox"/> Environmental Literacy
<p>8.2 Technology Education, Engineering, and Design All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.</p> <p>G. The Designed World: The designed world is the product of a design process that provides the means to convert resources into products and systems.</p> <ul style="list-style-type: none"> 8.2.12.G.1 Analyze the interactions among various technologies and collaborate to create a product or system demonstrating their interactivity. 	<u>21st Century Skills</u> <i>Learning and Innovation Skills:</i> <input checked="" type="checkbox"/> Creativity and Innovation <input checked="" type="checkbox"/> Critical Thinking and Problem Solving <input checked="" type="checkbox"/> Communication and Collaboration <i>Information, Media and Technology Skills:</i> <input checked="" type="checkbox"/> Information Literacy <input checked="" type="checkbox"/> Media Literacy <input checked="" type="checkbox"/> ICT (Information, Communications and Technology) Literacy

<p>CCSS.ELA-LITERACY.RST.9-10.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.</p> <p>CCSS.ELA-LITERACY.WHST.9-10.2.F Provide a concluding statement or section that follows from and supports the information or explanation presented (e.g., articulating implications or the significance of the topic).</p> <p>9.1 21st-Century Life & Career Skills All students will demonstrate the creative, critical thinking, collaboration, and problem-solving skills needed to function successfully as both global citizens and workers in diverse ethnic and organizational cultures.</p> <p>9.1.12.A.1 Apply critical thinking and problem-solving strategies during structured learning experiences.</p>	<p><i>Life and Career Skills:</i></p> <p><input checked="" type="checkbox"/> Flexibility and Adaptability</p> <p><input checked="" type="checkbox"/> Initiative and Self-Direction</p> <p><input checked="" type="checkbox"/> Social and Cross-Cultural Skills</p> <p><input checked="" type="checkbox"/> Productivity and Accountability</p> <p><input checked="" type="checkbox"/> Leadership and Responsibility</p>
<p><u>Enduring Understandings:</u> <i>Students will understand that . . .</i></p> <p><i>EU 1</i> the vehicle identification number will characterize an individual vehicle.</p> <p><i>EU 2</i> the initial purchase price of a vehicle is not the only expense to be considered when evaluating a vehicle.</p> <p><i>EU 3</i> there are a variety of ways to power a vehicle.</p>	<p><u>Essential Questions:</u></p> <p><i>EU 1</i></p> <ul style="list-style-type: none"> • How does a vehicle identification number assist in maintaining or repairing a vehicle? • How is a vehicle identification number like a social security number? <p><i>EU 2</i></p> <ul style="list-style-type: none"> • How do you calculate how much a vehicle will cost overall? • Why would someone consider leasing a vehicle? <p><i>EU 3</i></p> <ul style="list-style-type: none"> • Why is it important to learn about alternative fuel vehicles? • What issues influence the usability of alternative fuels?

<p>Knowledge: Students will know . . .</p> <p><i>EU 1</i></p> <ul style="list-style-type: none"> the importance of a vehicle identification number. <p><i>EU 2</i></p> <ul style="list-style-type: none"> not all vehicles have the same expenses. maintenance on a vehicle is expensive. the advantages and disadvantages of purchasing and leasing. <p><i>EU 3</i></p> <ul style="list-style-type: none"> the advantages and disadvantages of using alternative fuel vehicles. fuel source will affect the design of a vehicle. 	<p>Skills: Students will be able to . . .</p> <p><i>EU 1</i></p> <ul style="list-style-type: none"> read a vehicle identification number. locate a vehicle identification number. <p><i>EU 2</i></p> <ul style="list-style-type: none"> determine the difference between vehicle necessities and luxuries. identify vehicle expenses. <p><i>EU 3</i></p> <ul style="list-style-type: none"> calculate the payback period on an alternative fueled vehicle. explain why there is a market in alternative fuels.
<p>Stage 2 – Assessment Evidence</p>	
Empty space for assessment evidence	
<p>Other Recommended Evidence:</p> <ul style="list-style-type: none"> Quiz/Test Discussions Worksheets Workbook Web searches 	

Stage 3 – Learning Plan

Suggested Learning Activities to Include Differentiated Instruction and Interdisciplinary Connections: *Each learning activity listed must be accompanied by a learning goal of A= Acquiring basic knowledge and skills, M= Making meaning and/or a T= Transfer.*

- Teacher led discussions on vehicle identification numbers (A)
- Discussions on alternative fuel sources (A)
- Discussions on vehicle expenses(A)
- Research alternative fuel sources (M)
- Videos on alternative fuel sources such as *Dirty Jobs* with Mike Rowe and bio fuel which can be found on youtube.com (M)
- Decode vehicle identification numbers (M,T)
- Workbook on vehicle identification numbers and expenses unit such as chapters 1, 2, 3, 4, and 18 in *Auto Upkeep Basic Car Care, Maintenance, and Repair* book. (A)
- Use an owner's manual to find various capacities and specifications (M,T)
- ProDemand vehicle identification number searches (A, M)
- Use web based searches such as Edmunds, Kelley blue book, and Ebay to determine vehicles values and mileage (A, M, T)