See Yourself in the Driver’s Seat

Facilitator’s Guide for Teacher Training

On How to Use the K-12 Transportation Lesson Plans and Learning Activities
# Lesson Plan / Facilitator’s Guide

## Learning elements
- Colors, Shapes, Object Identification, Drawing, Matching,
- Conduct, Behavior, Dexterity, Communication, Thinking, Creativity, Teamwork,
- Word Recognition, Reading, Writing, Relationships, Sequencing,
- Safety, Hazardous Materials, Placards, the Environment, Science,
- Numbers, Addition, Subtraction, Multiplication, Division, Fractions, Exponents, Time, Money, Math, Area, Word Problems, Patterns, Conversion, Problem Solving, Time Orientation, Data Accuracy, Extracting Data from Tables, Graphing, Bar Graphs, Subsets, Algebra, Costing, Percent, Average, Statistics, Summarizing
- New Tech (Computer-Internet, Podcasts), Geography, Scheduling Fueling/Maintenance, Social Science

## Contributes to these Educational Standards

## Supports these CRLs
- Personal Management, Communication & Collaboration, Creativity and Innovation, Teamwork, Problem Solving, Communication, Employment Foundations, Career Development

## Learning Environment requirements:
Central focus space to set the stage and invite participation by the entire class. Bring the resources trunk, and a set of lesson plans and training materials for each participant. Assure electronic access to the web, as well as lesson PowerPoint and exercises displayed in class (see learning objective four to decide which materials you will want to access during the session.) Bring paperwork or certificates for teacher certification credit.

## Introduction (10 minutes)
Trucks carry many different products to many different places. Almost everything we buy has been delivered by truck to a store or to our homes. We have an opportunity to supplement our learning in schools with Trucking examples and lessons. We have built a program that gives the teacher the latitude to use their creativity and teaching expertise, with the opportunity to provide positive exposure to the trucking industry.

Now, let’s take a few minutes and work together to tell a story about an object in this room, and how it got here. (Note: this ice breaker/exercise is used in Grade 1 - Build a Trucking Story)
<table>
<thead>
<tr>
<th>Objective</th>
<th>Time (minutes)</th>
<th>Teaching Points</th>
<th>Supplies</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 Review lesson plan summary</td>
<td>10 min</td>
<td>Spreadsheet that shows all lesson plans at a glance. There are three to four lesson plans per K-12 grade level. Learning elements in red show the various different learning elements that the learner is exposed to throughout the body of lesson plans. Generally, the red highlight shows the first time this element is introduced.</td>
<td>Lesson Plan Summary</td>
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| #2 Review lesson plan intent  | 15 min         | The lesson plans were designed to be flexible:  
  - Each lesson plan can stand alone, build on each other, or  
  - Can be used as a foundation for you to expand into a set of lessons, or  
  - You can pull exercises of key information and use them in another lesson. For example, you may want to pull math exercises and use them to supplement a math concept, using a trucking example to help emphasize the variety of ways the concept can be applied.  
  - We recognize that you will have learners at various levels in the classroom, especially in the lower grade levels. We have recommended a grade level for each lesson plan, but you are free to pull from lower and higher grade levels to target the exact needs of your individual learners and for the classroom as a whole. (Sometimes an entire class seems to move together more quickly or slowly)  
  - Two story problem help sheets: one for earlier grade levels, one for 5th grade and above. (More verbs introduced in later one, and different visual example). | Lesson Plans  
  Grades 2-4 Story Problem Hint Sheets  
  Grades 5-12 Story Problem Hint Sheets |
| #3 Review lesson plan format  | 10 min         | **Learning elements**-shows at a glance what elements are used in the lesson plan  
  **Contributes to these Educational Standards**-references related educational standards  
  **Supports these CRLs**-shows you which CRLs are touched in the lesson  
  **Learning Environment requirements**-room setup, resource trunk materials needed, whether or not a PC is needed, & references web sites that can be used with the lesson  
  **Introduction**-sets the stage for the lesson, and addresses “what’s in it for me” for the learner  
  **Learning Objectives**-each objective has an estimation of delivery time, key teaching points, supplies needed for each objective, and lists new vocabulary introduced  
  **Wrap-Up**-key elements to address while winding down the lesson                                                                                                                                                                                                                                                                                                           | Note: supplies in the lesson plans frequently include exercises or PowerPoint materials. |
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<td>#4 Walk through example lesson plans</td>
<td>55 min</td>
<td><strong>Math</strong> lesson plans grades 2-12, build on math concepts <strong>Reading</strong>, books introduce stories with travel or trucking themes. Note: <em>Kamyonistan</em> explores intercontinental truck drivers, treacherous mountain passes, desert storms and TIR truck stops in the Middle East and two teenage boys, one English, one Arab. <em>Blue Highways</em> is written by Native American William Least Heat-Moon. <strong>Trucker Buddy</strong> (available for grades 2-8; builds relationships &amp; increasing level of problem solving, industry awareness) <strong>Grade 9 and above</strong> concentrate more on CRLs, emphasize career particulars or references in lesson plans to career web sites. <strong>Grades 10, 11, 12 Road Safety</strong> emphasize aspects truckers need for keeping us all safe on the road, but also provide opportunity for teenage new drivers to be thinking about their role in driving also.</td>
<td>Point to 3 or 4 (depending on audience): Grade K Lesson Plan-Road Manners Grade 2 Lesson Plan-Match the Trucks <strong>Garbage Monsters</strong> DVD Match Trucks Exercise Match Trucks Pictures Grade 3 Lesson Plan-Get Ready to Safely Transport Balance Load Exercise Delivery Timeline Precheck Checklist Grade 6 Lesson Plan-Read <em>Kamyonistan</em> Grade 7 Lesson Plan-Communicate w/Truck Driver Activity &amp; Delivery Timeline Grade 8 Lesson Plan-Transportation Math Exercises (Graphs, Bill of Lading) Grade 9 Lesson Plan-Transportation Math Protective Action Zone Handout Protective Action Zone Exercise Grade 9 Lesson Plan-Road Safety Road Safety Placards &amp; Exercise Grade 11 Lesson Plan-Road Safety-Maintaining Control Maintaining Control PowerPoint</td>
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<tr>
<td>#5 Identify online resources</td>
<td>20 min</td>
<td>A wide variety of resources are available. We have a couple of handouts to help. Here are a few examples, we encourage you to explore the resources: - <strong>Cubic footage calculator</strong>: <a href="http://freight88.com/cubic_footage.html">http://freight88.com/cubic_footage.html</a> - <strong>Accident Reporting kit, Border crossing kit, Rand McNally Motor Carrier’s Road Atlas, Training videos, daily log books</strong>: [<a href="http://www.incomdirect.com/canproducts/transportation/products.html?gclid=CNidtOjPnJwCFRt">http://www.incomdirect.com/canproducts/transportation/products.html?gclid=CNidtOjPnJwCFRt</a> odMQ_Jdw](<a href="http://www.incomdirect.com/canproducts/transportation/products.html?gclid=CNidtOjPnJwCFRt">http://www.incomdirect.com/canproducts/transportation/products.html?gclid=CNidtOjPnJwCFRt</a> odMQ_Jdw) - <strong>Emergency Response Guidebook</strong> (Online): <a href="http://phmsa.dot.gov/hazmat/library/erg">http://phmsa.dot.gov/hazmat/library/erg</a> - <strong>Fed-Ex electronic bill of lading</strong>-- [<a href="https://gtm.fedex.com/GTM?cntry_code=us&amp;CMP=KNC-">https://gtm.fedex.com/GTM?cntry_code=us&amp;CMP=KNC-</a> REM077&amp;HBX_PK=bill%20of%20lading&amp;HBX_OU=50](<a href="https://gtm.fedex.com/GTM?cntry_code=us&amp;CMP=KNC-">https://gtm.fedex.com/GTM?cntry_code=us&amp;CMP=KNC-</a> REM077&amp;HBX_PK=bill%20of%20lading&amp;HBX_OU=50) - <strong>Career-Related Web Sites</strong>—several different sites available on the list - <strong>GPS Web Sites</strong>—games, information, further explanation of how GPS works</td>
<td>PC, projector, Handouts: Trucking and Logistics Resources GPS Web Sites</td>
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| #6        | 15 min         | • Contains materials that supplement lesson plans  
• Extras (books, games, reference materials, maps)—enhance the environment, or allow you to build more if you like.  
• **HAVE FUN WITH IT!** There’s lot’s of fun stuff in here—let’s take a look.  
• Bonus—we can supply a small library of books for you to keep, should you be interested in sustaining the lessons/conversation throughout the school year. | Resource trunk                   |
| Wrap-up   | 15 min         | • Review key program elements, emphasizing the transportation process.  
• Review intent to introduce K-12 to trucking industry, and positive trucking image. Emphasize flexibility in lesson plan use--acknowledge the great inputs from today’s learners, and the opportunity to apply their subject matter expertise and creativity.  
• Review how to check out the resource trunk, and how to access the lesson plans. | Completion certificate? Or paperwork to fill out for certification paperwork... |
| Total:    | 2.5 hours      |                                                                                                                                                                                                            |                                  |
| Additional:| 4 hours        | Tour a transportation facility, or trucking company, or invite a trucker buddy to visit, to provide an example discussion/visit to learners.                                                                  |                                  |