

Common Core and Instructional Alignment

Module 5



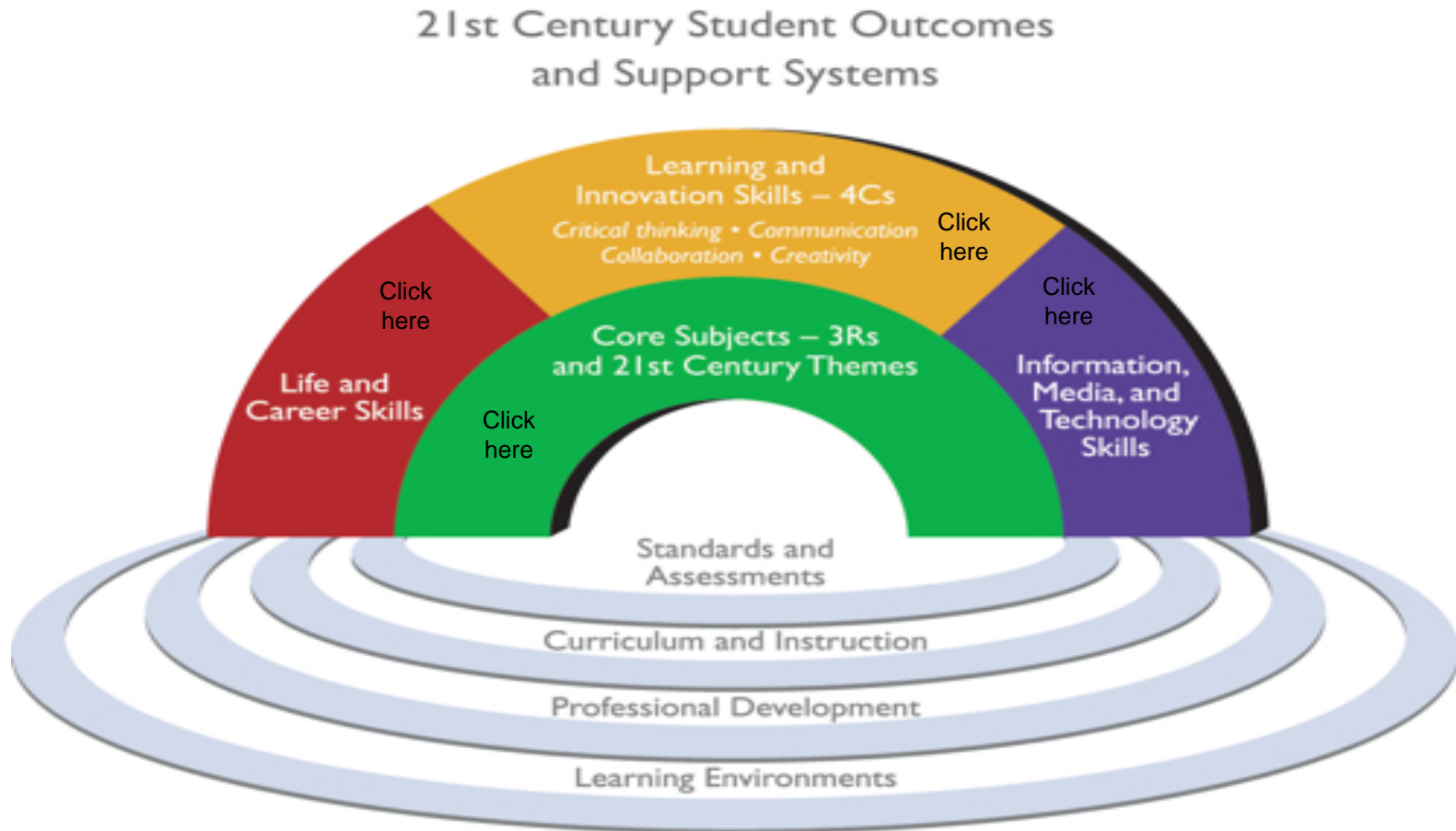
Module 5: Common Core and Instructional Alignment

Learning Objectives

- Understand how transportation education is connected to Common Core State Standards
- Articulate how transportation education supports college and career readiness
- Incorporate transportation education into instructional activities across disciplines

Educators Can Integrate Transportation Content in Curriculum & Instruction around the Common Core

Click on each of the sections to find examples



Integrating Transportation Content with Instruction and the Common Core

Life and Career Skills

- Transportation supports life and career skills—since mobility and travel affect a student’s ability to live independently and to get a job
- For students with a range of disabilities, especially those with significant disabilities, educators and parents should ensure that students receive transportation education regarding a range of accessible transportation services

Integrating Transportation Content with Instruction and the Common Core

Learning and Innovation Skills

- Critical thinking – Students must be equipped with the ability to solve problems they encounter in navigating their adult lives (e.g. what would you do if the bus or train is late, and you are trying to get to a job?)
- Communication – Students need to self-advocate when navigating their communities (e.g. asking the bus driver for information or assistance)
- Collaboration – Students need to know how to work with others to reach goals (e.g. collaborating on a transit project or trip-planning)
- Creativity – Students can innovate through projects (e.g. service-learning projects that reflect transit experience, such as examining accessibility)

Integrating Transportation Content with Instruction and the Common Core

Information, Media and Technology Skills

- Web-based transit search tools can be used to teach students to using web-based platforms
- Transportation providers' applications can be downloaded to smartphones
- GPS technologies can be used to alert students to bus stops or let them know when buses or trains are approaching

[Online Trip Planner at RTA-Northeastern Illinois](#)

Integrating Transportation Content with Instruction and the Common Core

Academic content and academic standards

- Literacy – Use transportation articles and stories to assess fluency, vocabulary and comprehension
- Math – Use bus schedules and route maps to assess addition, subtraction, time, geometry
- Geography – Trip planning using local landmarks as examples or terrain as an exemplar for slope
- Technology – Embedded throughout

Learning Activity

- Use the Common Core Framework as a guide to think about transportation education activities that are appropriate for your classroom
- Begin to collect examples from your colleagues about instruction that may already include reference to transportation content

Learning Activity – Case to Connect to the Common Core Framework

Learning activity to address critical thinking, communication, collaboration, and creativity – this is a role play for this module that you can also use for students

You have recently obtained a job in your local library and use bus #4 to get to work each day. You and several other people who regularly wait for the same bus are at the bus stop. The bus you usually take is scheduled to arrive at 8:30 a.m., giving you about $\frac{1}{2}$ hour to get to your job by your start time at 9:00 a.m. It is now 8:45 a.m. and your bus has not arrived.

- What factors or information in this case are important?
- Discuss the situation with other people at the bus stop. What things would you talk about?
- What steps would you take in this situation?
- If you decide to contact the bus company, what questions would you ask?
 - Address questions on next slide

How does learning from this case reflect skill development related to:

- Collaboration
- Communication
- Creativity
- Critical thinking

Could you use this scenario with your students?

Emphasis on College and Career Readiness

- Schools are interested in preparing students to attend college and to ensure that they have the necessary skills to be employed successfully

- College and career readiness definition

The bottom line: Employers are demanding more education and training, and jobs that require a high school diploma or less are disappearing. Middle- and high-skills careers are the path to the middle class, and a strong K-12 preparation for education and training beyond high school is the path to those careers.

Achieve (<http://www.readyby21.org/news/information-update/what-does-it-mean-be-career-ready>)

Transportation Supports College & Career Readiness

- If students do not learn about transportation as they gain skills to enhance success in college or careers, they won't be able to get to colleges or jobs
- Students need all types of supports throughout their educational path
 - These supports insulate or serve to enable students to be college and career ready
 - Ready by 21 uses a pipeline metaphor to depict these supports
[*InsulatedEducationPipeline.pptx*](#)
 - Transportation is identified as a support

[Click to view video about transportation supports.](#)

The Importance of Integration of Transportation in Teaching

- Helps students become more familiar and aware of transportation terminology
- Enables students to learn about transportation options
- Enhances the efficiency of addressing transportation topics since this content can be embedded in existing curriculum and classroom materials
- Helps educators learn about transportation services

Common Core Standards

- What is the Definition?
- Why do it
- Content areas of literacy, writing, social science, and mathematics

A CONTINUUM OF CONTENT ACROSS GRADES

Learning Activity

- In the subject areas on the following pages, think about transportation examples and content that you can use to teach skills across each topic.
- Use the following table to help you organize your content

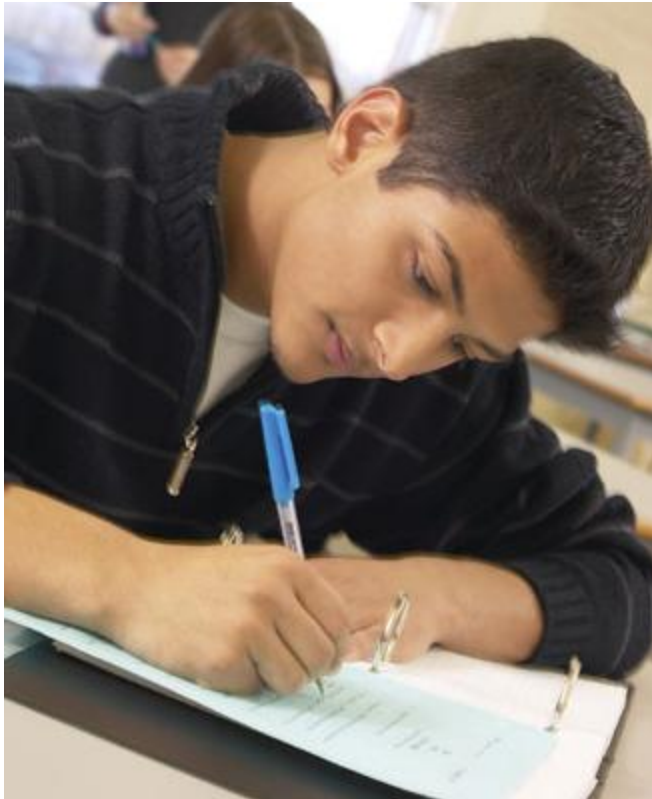
Subject Area	How could an educator address this content by using transportation content?	What resources do you need to integrate this content?
Literacy – Phonics	Use transportation words to help students learn about phonics. For example, how ...	
Writing – Sequencing events	Have students write a story about making plans and traveling on a bus	

Common Core Alignment With Literacy Goals

- Articles
- Essays
- Main Idea
- Phonics
- Short Stories
- Sight-Word Recognition



Common Core Alignment with Writing Goals



- Composing opinion pieces
- Journaling
- Sequencing events
- Research projects
- Writing informative/explanatory pieces

Common Core Alignment with Mathematics Goals

- Counting
- Money skills
- Number recognition
- Probability
- Reading bus schedules
- Telling time
- Understanding route maps



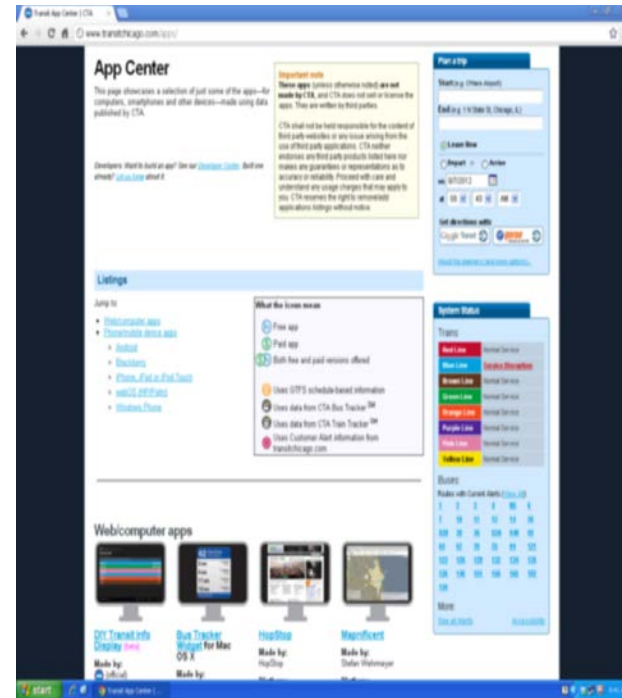
Common Core and Social Science



- Acquisition of new vocabulary
- Cause and Effect
- Describing the relationship between a series of historical events
- Main Idea
- Sequencing—Trip Planning
- Transportation Safety

Incorporating Technology with Transportation Education

- Trip planning using online transit trip planners such as www.rtachicago.com or www.transitchicago.com
- Downloading Transit Apps for iPods, iPads, iPhones, Android and Blackberry devices



Incorporating Technology with Transportation Education



- Use social media outlets such as Twitter and Facebook to connect with the your local public transportation provider for up-to-date notifications.

Integrating Common Core Standards and Transportation Education

Kindergarten

- Role play “stop,” “go,” “yield,” and “one-way”
- Read signs in the community during community walk
- Identify signs using pictures; have students act out signs in picture

Integrating Common Core Standards and Transportation Education

Kindergarten

- Describe signs they saw in the community; draw the signs together as a class; What color? What shape? What did you do when you saw...?
- Create a class story using digital pictures that were taken in the community; use teacher/student's name within the story

Discussion Questions

- Identify opportunities in which you can integrate transportation content into curriculum & instruction
 - Can you identify academic standards and/or common core standards in which you currently embed transportation content?
 - If you do not already integrate transportation content with standards, what resources do you need to accomplish this?
 - Can you assist other educators to implement transportation content in their curriculum & instruction?

Learning Activity

- Using the Common Core Standards as a guideline, create transportation education activities that are appropriate for your classroom

COLLEGE AND CAREER READINESS

Emphasis on College and Career Readiness

Ready by 21 Insulated Pipeline

Transportation, Health, Mental Health, Housing, Financial

ECD & Child Care Providers After-School Programs Civic, Social, Work Opportunities Social & Strategic Placement Supports & Coaching



Discussion Questions

- How does transportation education affect college and career readiness?
- Can you identify opportunities to share these connections with colleagues?
- What data would help you know whether there are connections across transportation education and college and career readiness?

Discussion Questions

- What federal accountability measures can be affected by transportation education?
 - Do you have systems in place to collect data on the linkages across federal measures and transportation content?
 - If you do not already have these systems in place, what are some ways you can implement these data collection processes?

[Module 7 can help you with performance measurement](#)

Congratulations, you have completed Module 5!



Please take a few minutes and
provide us with feedback

Time to move on to Module 6!