



Buckle Up

Students will explore different modes of transportation and discuss smarter mobility habits.



Learning outcomes

By the end of this activity, students:

- ✓ will be able to explain the importance of smarter mobility
- ✓ will have demonstrated an understanding of a number of different transportation strategies
- ✓ will have a basic understanding of research and development in the transportation sector

Complete **ONE** of the following options.

You will only be able to submit work and get credit for one option.



Option 1

Design a smart mobility poster or presentation

Students will design a poster or presentation which emphasizes the benefits to both humans and the environment related to smart mobility.

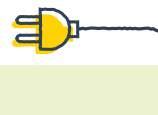
Option 2

Research cutting-edge alternatives to popular transportation methods

Students will research future potential “smart” transportation modes that use next-generation technologies and create a word cloud in the shape of a chosen transportation method.

Important

Please respect all school and governmental guidelines and restrictions surrounding COVID-19. Review the 2021 CEDC COVID-19 policy [here](#). This challenge does NOT require students to participate in an in-person event.





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Option 1

Design a smart mobility poster or presentation

Students will design a poster or presentation which emphasizes the benefits to both humans and the environment related to smart mobility.

Materials

Materials as necessary to create posters and presentations, books, articles or computers with Internet access for research.

Proof to be submitted

Photos of posters or copies/screenshots of presentations.

Activity

As a class, brainstorm and list different methods of transportation. Discuss which modes are best for the environment and circle these options on the list. Ask students to underline the modes of transportation most commonly used in their community.

Do a think-pair-share activity. Ask students to think of as many smart mobility tips as they can. Have students work in pairs to write these tips down. Ask each pair to share their ideas with the class. Write down everyone's ideas.

As a class, decide if you would like to share your ideas in a brochure, a poster, a powerpoint presentation or on a display board, and design one that is visually stimulating while addressing the topic of smarter mobility in a clear and interesting way. When the product is complete, put it up in your school or on your website/blog/social media channel for everyone to see!

Take it home

Ask students to share with their family what they have learned about smart mobility habits and the presentation they designed. Have them make a list of how they can improve their mobility habits with their family and share with the class. Encourage them to share their list (with permission) on social media using #EnergyDietChallenge with @Energy_Lit.



Teacher tip

The concept of "smart mobility" could be slightly too abstract for young children, so discuss a best approach for the intended audience with your students beforehand. If the audience is other students, for example, consider focusing on student-friendly transportation such as biking, busing and walking.





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Option 2

Research cutting-edge alternatives to popular transportation methods

Students will research future potential “smart” transportation modes that use next-generation technologies and create a word cloud in the shape of a chosen transportation method.

Materials

Materials as necessary to design or draw word clouds, books, articles or computers with Internet access for research.

Proof to be submitted

Photos or copies of at least one word cloud.

Activity

As a class, discuss the various methods of transportation that students are familiar with. Assign a different method to one or more students and have them research the history and future of that method, taking into account technological advancements that have taken place or could take place over time. What makes certain methods of transportation “smarter” than others?

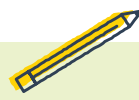
Have students share their findings in a group discussion, and discuss which modes appear to be best for the environment or which modes show the greatest promise for reducing negative environmental impacts in the future. Ask students to consider if the cutting-edge technologies they discovered could work at different scales (i.e., their community, their city, their province/territory, their country). Are there solely benefits associated with these technologies, or are there drawbacks to be considered as well?

Have each student consider the complete list of transportation methods and technologies discussed. Then have them design a word cloud using keywords associated with their chosen method of transportation, focusing on words that emphasize ongoing research and development in that field. Words that they feel reflect their choice more prominently should appear bigger and bolder, while words that are loosely associated should appear smaller and lighter. Challenge students to design their word cloud such that it takes the shape of their chosen method of transportation!



Teacher tip

You can use this activity to share tips on smart mobility habits and to help inform other audiences about exciting new technologies!





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An example from previous years of how this challenge can be completed:

The Leung/Caceres classroom created posters about energy-efficient ways to travel.

