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# Move Up

**STEAM TIME**



A GREEN TRANSPORT OPTION FOR OUR CITY



Fully aligned with NEM  
MCCEMS program





## A GREEN TRANSPORT OPTION FOR OUR CITY



Create a 'green' transport option for students or residents in your community.



What forms of transport do students at your school use to get to and from school every day? Which is the most common? Why is it the most common form of transport? Is it 'green'?



- ♦ What do you understand by the term 'green'? What are some examples of 'green' technology, companies, actions or forms of transport?
- ♦ In groups, design a brief, clear definition of 'green' referring to the environment. Include a minimum of two examples to illustrate your definition.

"Green" means...

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- ♦ Read the text to learn about green transport and its benefits for the environment.

### GREEN TRANSPORT

In every city in every country, hundreds, thousands and millions of students make their way to and from school every day. Some students walk, some go by car or bike. Some use public transport like a bus or subway.

In many cities, cars are more popular than all other forms of transport. There are over 1.6 billion automobiles in operation around the world today; that's one car for every 5 people in the world. In Mexico, with a population of around 130 million inhabitants, there are approximately 35 million cars.

Cars are extremely convenient, but they are also a danger for the environment because most cars use gasoline and they make the air dirty and cause pollution. Electric cars are cleaner and better for the environment, but they are not as popular as gasoline cars, and they're more expensive.

Green transport is good for people and the environment. Buses, bikes and trains can carry many students and they use less energy than cars. Electric buses use electricity, not gasoline. So, they are more environmentally friendly and not as harmful to the environment. They are quieter and cleaner than many cars and other traditional, older forms of transport.

Green transport can help students arrive at school safely and help make our city air cleaner than before.





# A GREEN TRANSPORT OPTION FOR OUR CITY



♦ Use the information from the text to complete these sentences. In each space, use only one word or number from the text.

1. The most common form of transport in many cities is the \_\_\_\_\_ .
2. We have approximately \_\_\_\_\_ cars in the world.
3. \_\_\_\_\_ people live in Mexico.
4. Cars create pollution because they use \_\_\_\_\_ .
5. Gasoline cars are more \_\_\_\_\_ and \_\_\_\_\_ than electric cars.
6. Green transport is \_\_\_\_\_ for the environment.
7. Electric buses don't use \_\_\_\_\_ .
8. Electric buses are \_\_\_\_\_ and \_\_\_\_\_ than traditional buses.



GET THINKING!

♦ Only using the information in the text, can you complete these statistics? You'll need to use some mathematical skills to help you with some answers.

1. There are approximately \_\_\_\_\_ cars in the world.
2. Ratio of cars to people in the world: \_\_\_\_\_ : \_\_\_\_\_ .
3. So, there are approximately \_\_\_\_\_ people in the world.
4. There are approximately \_\_\_\_\_ people in Mexico.
5. There are approximately \_\_\_\_\_ cars in Mexico.
6. So, the ratio of cars to people in Mexico is: \_\_\_\_\_ : \_\_\_\_\_ .

So, does Mexico have a higher or lower proportion of cars per person than the world average?



GIVE MORE

♦ Find 6 forms of transport and 2 types of energy mentioned in the text

| Transport |          |          | Energy   |  |
|-----------|----------|----------|----------|--|
| 1. _____  | 3. _____ | 5. _____ | 1. _____ |  |
| 2. _____  | 4. _____ | 6. _____ | 2. _____ |  |



GIVE MORE

♦ Choose any 3 forms of transport you or other students use. With your partner or classmates, list all the pros and cons of each form of transport. Complete the tables below. You can use some of this vocabulary to help you:

- fast
- convenient
- pollution
- slow
- traffic
- on time
- many people
- clean
- late
- tiring
- expensive
- near school
- schedule
- dangerous
- driver
- problems
- bad weather
- roadworks
- dirty
- reliable

A GREEN TRANSPORT OPTION FOR OUR CITY



Transport method: \_\_\_\_\_

| Pros | Cons |
|------|------|
|      |      |

Transport method: \_\_\_\_\_

| Pros | Cons |
|------|------|
|      |      |

Transport method: \_\_\_\_\_

| Pros | Cons |
|------|------|
|      |      |



- ◆ Now, propose and design a new green transport option for students or the general public in your city.
- ◆ Think of the design and how viable it is for students and residents.
- ◆ Describe the route and design of the new transport, the type of energy it uses and how many people it can carry. Explain why it is 'green' and why it is a better option than the forms of transport available at the moment.



- ◆ Share or present your green transport to the class or your teacher. You can use some of the vocabulary above to help you. Include these points in your presentation:

- Identify and explain the main problems with transport options at the moment
- Describe the type of transport you selected in detail
- Describe how the transport operates (route, times, capacity)
- Include a minimum of 2 comparative sentences to compare this transport to other types
- Identify the energy it uses and how it moves
- Explain why this is a better option than other forms of transport at the moment
- Explain why this is 'green' transport

You can use and adapt these phrases to help you:

**Our transport is more convenient than** \_\_\_\_\_

**This green bus uses** \_\_\_\_\_

**The new train can carry** \_\_\_\_\_

**This transport helps the environment because** \_\_\_\_\_