# Cheen Schools Network Starfings ACTIVITY SHEET June 2009

## Why talk about Public Transport?



**Public transport (public transit** or mass transit) includes passenger transportation services available for use by the general public, as opposed to private automobiles or vehicles for hire.Public transportation can consist of subways, commuter trains, buses, van pool services, ferries, and monorails. Public transport allows cost effective transport vis-a-vis private transport. Through stimulating public transport it is possible to reduce the total transport cost for the public.

The transport sector is by far the most voracious oil guzzler. By 2035 in India, cars and onroad vehicles are expected to consume six times more fuel than they do now. The annual growth rate for cars in India is 16 percent. Cars consume six times more energy than buses, and two-wheelers, 2.5 times the energy. To move the same number of people, cars occupy 38 times the road space than a bus, and two-wheelers occupy 54 times the space.

Name	
School Name	
Class	Date

### **Gobar Gyan:**

The share of buses in the total fleet in India has dwindled from 11 per cent in the 1950s to 1.1 per cent today. This is visible in the use of road space. In Delhi, personal vehicles – cars and two-wheeler – use up more than 75 per cent of the road space but meet only 20 per cent of the commuting demand. But buses that use less than 5 per cent of the road space, meet more than 60 per cent of the travel demand.



Public transport systems mean lesser congestion and faster speeds. Investment in public transport also stimulates the economy.

## **Activity: 1**

Do you use public transport regularly?

162		
No		
•	nen which i do you use	public
Bus		
Metro		



Train	
603	

Aeroplane

Taxi

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You will find me in Gobar Times—-a magazine that tells you how your everyday life is linked to the world around you. Hooked, huh? If you want to know more about me and GobarTimes visit us at:

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Why do you use public transport regularly?  If you don't use it regularly, then why?		
Nearly all forms of public transport pose less of a cost to the traveler. The cost of owning a c because of the petrol cost which itself is very high in India.	ar goes much higher	
Activity: 2		
Do you travel to school using public transport?		
Yes		
No		
If you travel to school using the school bus, then what is the bus fee?		
If you travel by your own vehicle then find out its monthly expense.		
Distance between your house and the school:		
Number of times the car goes from your house to the school: 4 times per day		
Total time taken to cover this distance (4 times):		
Number of working days in the school in 1 month:		
Then we calculate the total distance		
Total distance= Distance x 4 trips x Number of working days =		
Find the amount of fuel required by your car to travel the distance between your house and yo	ur school.	
Find out the mileage of your car :		
Total fuel consumption = distance between house and your school     Mileage of your car		
Calculate it here:		
• The monthly cost of the fuel required = Cost of fuel x number of litres per month.		
Calculate =		
If your driver drives you to school then calculate his wage for driving you to school.		
His hourly wage = $\frac{\text{Monthly wage}}{30}$ x number of hours he works = $\frac{1}{30}$		
x number of hours he works =		

•	His wage for driving you to school = Hou	ly wage x travel time x 4=
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Total cost of travel = The car's monthly fuel + The driver's wage for driving you to school =

Which mode of transport is more expensive, public or private?

How much money would you save in a month's time if you made a switch from private to public transport?

How much money would your family/group of friends save if all of you decided to use public transport instead of using your private vehicle?

Maybe you could use all that money to buy something you've wanted for a long time! (•)

There are many reasons to travel on the public transportation system. Here are some of them:

### • Public Transport – A Greener Form of Travel

Getting public transport and leaving the car at home is one of the biggest contributions towards a green environment. Car journeys contribute a significant amount of our overall carbon footprint.

### Quicker

Despite their tendency to get delayed at times, your journey will be quick and direct as more and more investment is made into Metro and bus routes across India.

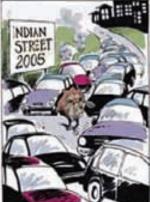
### Cheaper

Using public transport means no parking charges, taxes or car insurance. Plus it removes the cost of maintaining your car to a high standard.

## No Parking

One of the most irritating things about driving a car or motorbike is the need to hunt for a parking spot upon reaching your destination. Parking is often scarce and expensive. The need to park is eliminated while using public transport.





OH A COW WORSHIPPING NATION

"OH! A CAR WURDHIPPING NATION





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If you found the activity sheet interesting, E-mail us at eeu@cseindia.org or write to: Activity Sheet, Centre for Science and Environment, 41 Tughlakabad Institutional Area, New Delhi-110062 or Call 29955124 Extension 219