



Which of the following describes substances that are released via vehicles exhaust fumes and which are harmful for human beings and/or the environment?



☐ Hydrocarbon, oxygen and nitrogen



☒ **Carbon monoxide, carbon dioxide and nitric oxide**



Carbon monoxide is toxic on inhalation. It cannot be seen, smelt or tasted. Carbon dioxide has a negative impact on the greenhouse effect. Amongst other things, nitrogen oxide acidifies our lakes and forests.

☐ Sulphur oxide, helium and carbon dioxide





What is true about the fuel consumption?



☐ It is not affected by how the vehicle is loaded



☒ It is not affected by your driving technique



☒ **It influences our environment**



Vehicle emissions play a major role in the greenhouse effect, poor health for animals and people, and acidification of our environment.





Which substance in exhaust fumes has the greatest impact on the greenhouse effect?



☐ Carbon monoxide



☒ Carbon dioxide



Carbon dioxide retains the sun's radiated heat. As a result, the Earth's average temperature rises.

☐ Hydrocarbon



☐ Nitric oxide





Is the shortest route always the most ecofriendly alternative?



No. If a longer route means fewer starts and stops, this may be better



Each start and stop you make increases average fuel consumption. If possible, you should choose a straight route with no, or few, junctions.



Yes



Which means of transport is best for the environment?

✔ Train

Compared to road vehicles, railway traffic emits very little carbon dioxide.

☐ By air

☐ Car

☐ Bus



Which one is true?



☒ The air pressure in the tyres affects fuel consumption



If you drive with too little air in the tyres, it becomes heavier for the vehicle to drive forward and you have to give more gas. This increases fuel consumption.

☐ Using an engine pre-heater increases fuel consumption



☐ Many small stops along the way reduce fuel consumption





You have finished driving and park your vehicle. Why should you turn the engine off quite immediately?



☒ **Otherwise, exhaust fumes will be released unnecessarily**



Standing idle is completely unnecessary. Turn off your vehicle when parking, waiting for a train, standing in front of a bridge opening, etc.

☐ Otherwise the engine gets too hot



☐ Otherwise I can't pull the handbrake





What is true about the fuel consumption?



☐ It is not affected by how the car is loaded



☒ It can be reduced if I use the engine heater



An engine heater heats the engine before you start. This means no cold starts, because these are very bad for the environment. You also get a nice, warm car to drive in.

☐ It is not affected by the air pressure in the tyres





Theory



Study

Rapid tests

Custom test

Final test

× Stäng

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Miljön



What is an advantage of driving an electric vehicle?



It doesn't emit any carbon dioxide when it's driven



In Sweden, the majority of electricity comes from hydropower, nuclear power and a small part from other renewable sources.



It emits a very small amount of carbon dioxide when it's driven



← Prev question



The next question →

← Människan

Samordning och bromsning →

Miljön

11%



Miljön



Questions

19 st



Road signs



What would reduce traffic carbon dioxide emissions?



☐ If every driver used 95-octane fuel, to their vehicles



☒ If all drivers drove more climate-smart vehicles



Examples of climate-smart vehicles can be vehicles powered by electricity, biogas or ethanol.

☐ If every vehicle had a catalyst



☐ If every driver used 98-octane fuel, to their vehicles





Which of the following is a fossil fuel?



☐ Ethanol



☐ Biogas



☐ RME (rapsmethylester)



☒ Diesel



The production of fuels such as diesel and petrol needs, amongst other things, oil and coal. These are both fossil substances.



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Miljön



Why must you not wash your vehicle on an asphalted driveway that slopes down on to a street?



☐ The gully-holes on the street get clogged with greasy oil residue



☐ The car detergent disintegrates the asphalt



☒ Dirty water and oil residue run into the gully-holes and then flows into watercourses



Wash the car at a place where oil and water residues can be separated for example a carwash.





From an ecofriendly point of view, which order is correct?



☐ Start the car and then scrape ice off the windows



☒ **Scrape ice off the windows and then start the car**



Scrape the windows first. You can then start the engine and drive off immediately. This reduces engine idling and it is easier for the engine to heat up when you are driving (rather than when you are not moving).



☐ It is of no significance to the environment which order I choose





What style of driving uses least fuel and is best for the environment?



☐ I always use a high gear when driving down hills



☐ I always use a low gear when driving up hills



☐ I always drive with high engine revolutions



☒ I use the cruise control as often as I can



Cruise control keeps your speed constant. This means your speed is even, as also your fuel consumption.





How can you help to reduce the emission of carbon dioxide?



By choosing a vehicle with an engine with the lowest fuel consumption possible



Carbon dioxide retains the sun's radiated heat. As a result, the Earth's average temperature rises. You must think more about how you drive, which routes you choose to drive and which vehicles you choose to buy.



By making sure that the vehicle's silencer is in good condition



By always using studded tyres in the winter





In what way could you reduce the fuel consumption?



Using tyres with the right air pressure and low rolling resistance



A too low tyre pressure makes it more difficult for the vehicle to drive. This increases fuel consumption.



Driving in a low gear



Idling (running the engine while the vehicle is not in motion)





Planning your driving and often being able to use engine braking is a good way of reducing exhaust fumes. How?



☐ The engine temperature gets higher, so exhaust fumes are reduced



☒ There is less wear on the tyres, so exhaust fumes are reduced



☒ **Fuel consumption goes down, so exhaust fumes are reduced**



When you release the accelerator pedal, the need of fuel drops. This in turn, reduce exhaust emissions and the cost of fuel.





Which fuel is from a renewable source?



☒ Ethanol



Renewable means that the product can be produced and used time after time. Ethanol is produced from, amongst other things, sugar cane and wheat.

☐ Diesel



☐ Petrol

