TAKE THE IDLING QUIZ!

1. Idling is good for your vehicle because it warms up the engine and keeps it warm.
True or False?

2. It's a good practice to shut off the engine when your vehicle is going to be stopped for more than:
a. 10 seconds
b. 10 minutes
c. 30 minutes

3. Restarting my car many times, rather than letting it idle, is hard on the starter and other parts.
True or False?

4. A poorly tuned engine uses up to 15% more energy while idling than a well-tuned vehicle.
True or False?

5. Idling contributes to the climate change problem.
True or False?

6. Which of the following are common reasons for idling:
a. Warming up a vehicle
b. Sitting in the drive-through lane
c. Stopping to talk to a friend
d. Waiting for someone
e. All of the above

Check answers on back page of this brochure.

QUIZ ANSWERS

1. FALSE: Idling can be hard on your engine because fuel doesn't undergo complete combustion, and some fuel residues condense on cylinder walls.

2. a: More than 10 seconds of idling can use more fuel than turning off the engine and restarting it.

3. FALSE: Studies show that restarting the engine many times has little impact on components such as the battery and the starter motor.

4. TRUE: Whether you're driving a vehicle or letting it idle in your driveway, a poorly tuned engine will consume more fuel and generate more greenhouse gas emissions than one properly maintained.

5. TRUE: Carbon dioxide (CO_2), the principle greenhouse gas that contributes to climate change, is a natural by-product of burning gasoline.

6. e: These are all "excuses" for idling according to a recent study of Canadian driving habits and behaviour.

For more information, please contact:

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A special thanks to Natural Resources Canada, Office of Energy Efficiency for conducting research on vehicle efficiency

ENV 08-159

Township of Langley
Est. 1873

RAIL CROSSING
ANTI-IDLING CAMPAIGN

DO YOUR PART
Turn off your vehicle while waiting at rail crossings

one
our new environment

one TWO, THREE TURN THAT KEY!

Unnecessary vehicle idling harms the environment and your pocket book! The Township of Langley has developed ONE, Two, Three…Turn That Key! as an awareness-building program to reduce unnecessary vehicle idling at rail crossings and to promote a cleaner environment.

Vehicle emissions are a main source of greenhouse gases and a major factor contributing to climate change. Rail crossings are identified as a leading contributor to vehicle idling. With five rail crossings transecting many of the Township's major traffic arteries, vehicle wait times can often exceed 5 minutes, resulting in high rates of emissions from idle vehicles.

Do your part. Turn off your vehicle when stopped at a train crossing. This will help:

- ✓ eliminate unnecessary idling
- ✓ eliminate wasted fuel
- ✓ save you money
- ✓ reduce wear and tear on your engine

IDLING MYTHS

MYTH	TRUTH
☒ **Idling warms up the engine**	☑ Even in cold weather, the best way to warm up a vehicle's engine is to drive it. Idling warms up the engine but not the wheel bearings, steering, suspension, transmission, or tires which also need to warm up to maximize efficiency. Today's modern engines only require 30 seconds of warm-up idling.
☒ **Idling is good for your engine**	☑ An idling engine does not operate at peak temperature. Therefore, fuel combustion is incomplete, creating fuel residue and build-up that can damage components. Excessive idling can actually damage your engine components, including cylinders, spark plugs, and exhaust system.
☒ **Shutting off and restaring your engine uses more gas than if you let it idle**	☑ 10 seconds of idling uses more fuel than restarting your engine. Frequently restarting the ignition adds roughly $10 per year to the cost of maintaining engine components, which is easily recouped through fuel savings from reduced idling.

BE PART OF THE SUSTAINABLE SOLUTION

Reducing your idling time is not the only way to decrease greenhouse gas emissions related to vehicle use.

✱ A poorly maintained vehicle can boost fuel consumption by up to 50% and increase toxic emissions by even more. Schedule regular oil changes and exhaust systems checks.

✱ Each tire under-inflated by 2 psi (14 kPa) causes a 1% increase in fuel consumption. Ensure tires are inflated at the level suggested in the owner's manual.

✱ Minimize use of air conditioning to improve fuel efficiency in summer.
To stay cool, use your vehicle's flow-through ventilation and open windows.

TEACH OTHERS!
Spread the word to your family and friends