# TYPES OF ENGINES



**This page includes interactive exercises to help you learn about different types of engines and improve your reading and listening skills**

## PREPARATION TASK

**Do the match up exercise.**

| | | |
|---|---|---|
| 1. | gasoline | a. нагреваться |
| 2. | fuel injection pump | b. бензин |
| 3. | heat up | c. коэффициент сжатия |
| 4. | compression ratio | d. обслуживание, эксплуатация |
| 5. | biodiesel | e. свеча накаливания |
| 6. | maintenance | f. топливный насос высокого давления |
| 7. | durable | g. биодизель |
| 8. | glow plug | h. долговечный |

## READING

**Read the advice column from "Car and Driver" magazine. Then, choose the right answers.**

1. What is the purpose of the column?
   - A. to explain the process of combustion
   - B. to compare different types of engines
   - C. to show ways to use less fuel

2. How is a gasoline engine different from a diesel engine?
   - A. A gas engine releases more pollutants
   - B. A gas engine has a smaller fuel injection pump
   - C. A gas engine uses spark plugs for ignition

3. Which of the following is NOT a feature of a diesel engine?
   - A. Air and fuel mix before entering the chamber
   - B. It is more durable than a gasoline engine
   - C. It doesn't burn as clean as a gasoline engine

4. Which of the following is NOT a benefit of biodiesel?
   - A. It is cheap
   - B. It is less polluting
   - C. It provides better fuel economy

**CAR AND DRIVER**

**Q:** Dear Mechanic, I want to buy my first car. I know some engines run on **gasoline** and others run on diesel. What's the difference?

-Todd, Yorkshire

**A:** Both types of engines have combustion chambers. However, the diesel engine doesn't have a spark plug. Instead, it uses hot, compressed air to ignite the fuel. The air enters the chamber first. Then the **fuel injection pump** forces fuel into the chamber. Some have precombustion chambers or **glow plugs** that **heat up** the air to increase efficiency. In gasoline engines, on the other hand, fuel and air are mixed before entering the chamber, though most use a fuel injection pump as well. Diesel engines also have a higher **compression ratio**. Diesel has a bad reputation because it doesn't burn as clean as gasoline. New clean diesel is much less polluting. And **biodiesel** offers a sustainable fuel option. It's more expensive than gasoline, but provides better fuel economy. Another thing to remember: diesel engines require less **maintenance** and are more **durable**.




LIVEWORKSHEETS

## LISTENING

**Listen to a conversation between a buyer and a salesperson. Mark the statements as True or False.**

1. The salesperson is male.
   - o True o False
2. The man owned a diesel powered car before.
   - o True o False
3. He is interested in diesel engines because they are more fuel efficient.
   - o True o False
4. Diesel fuel is not very expensive.
   - o True o False
5. The man is worried that diesel engines are not eco-friendly.
   - o True o False
6. New diesel engines produce less pollution.
   - o True o False

**Listen again and complete the conversation.**



**Salesperson:** Welcome to World Autos. What can I do for you?
**Buyer:** I'm thinking about buying a car with a _____ engine, but I'm not sure if it's for me.
**Salesperson:** Well, what attracted you to diesel engines in the first _____?
**Buyer:** I've heard they're more fuel _____.
**Salesperson:** That's their main _____. A downside is that fuel costs _____.
**Buyer:** But the increased fuel efficiency makes up for that, right?
**Salesperson:** Absolutely, another plus is that diesel engines are more _____.
**Buyer:** That should save me money on maintenance in the long _____.
**Salesperson:** Sure, you don't have to take them to the _____ as often.
**Buyer:** That's good, though I am concerned that they're _____ engines.
**Salesperson:** Not the newer ones. Some can even run on biodiesel.

LIVEWORKSHEETS