

THE ENGINE OPERATION

Do you want to practise your listening skills and find out how car engine works?

Do the preparation task first. Then watch the video and do the exercises below.



PREPARATION TASK

Do the match up exercise.

- | | |
|----------------|--------------------|
| 1. piston | a) клапан |
| 2. cylinder | b) свеча зажигания |
| 3. fuel | c) ремень ГРМ |
| 4. stroke | d) распредвал |
| 5. spark plug | e) коленвал |
| 6. valve | f) цилиндр |
| 7. timing belt | g) такт |
| 8. camshaft | h) топливо |
| 9. crankshaft | i) поршень |

WHILE-WATCHING

Put the strokes in the correct order.

POWER	COMPRESSION	INTAKE	EXHAUST

POST-WATCHING TASK

Mark the statements below as TRUE or FALSE.

1. Most car engines today are internal combustion engines. TRUE / FALSE
2. Two stroke engine is commonly found in hatchback and sedan cars. TRUE / FALSE
3. The engine should pass through 4 strokes to complete one cycle to produce power. TRUE / FALSE
4. A piston is used to ignite the air-fuel mixture. TRUE / FALSE
5. Only a power stroke produces power. TRUE / FALSE
6. The camshaft provides momentum, which keeps the crankshaft from stopping. TRUE / FALSE
7. For a 4-cylinder engine one cylinder is always in a power stroke. TRUE / FALSE

WRITING

Complete the sentences with the appropriate information.

A four-stroke engine should pass through four different strokes to complete one cycle to produce power. They are: intake, _____, power and _____ strokes.

At the _____ stroke, the inlet _____ opens, the _____ moves downwards and creates a suction. This pulls the air _____ mixture into the _____.

At the _____ stroke, both _____ and _____ valves stay closed, the air fuel mixture is _____ and ignited by the _____ plug.

At the _____ stroke, with both valves _____, the explosion exerts pressure and pushes the piston _____. It produces the power and _____ the crankshaft.

At the _____ stroke, the outlet valve _____ and the piston pushes out the burned _____. The gasses exit the cylinder through an _____ valve.